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A New Greedy Algorithm to Estimate the Post-hoc Method

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ABSTRACT

Heuristic functions estimate how far each state is from the goal condition and have been widely used to guide state-space search to solve planning tasks. Effective heuristic functions find a good compromise between computation speed and quality in their estimates. Several heuristics have been proposed in the literature, and a technique called Post-hoc Optimization (PhO) has gathered attention since its proposal. PhO is an effective technique to combine abstraction heuristics in an integer program (IP) where the objective function is the sum of the costs applied from the operators into an optimal plan. As PhO bases it on IPs, we usually calculate it using general IP solvers, which can make it relatively slow to compute if we compare it to other heuristics.

Estimating the PhO solution can be faster than actually solving it. Local Search Heuristic (LSH) computes these estimations by making greedy decisions on each step towards satisfying the constraints of the IP. In this work, we introduce a novel greedy algorithm called Improved Local Search Heuristic (ILSH) that leverages concepts from LSH. Inspired by the approximation algorithms for set cover (Johnson, 1974; Lovász, 1975; Chvatal, 1979), our algorithm aims to estimate PhO sufficiently well and, at the same time, compute it faster than PhO does such that we can apply it in larger contexts.

To evaluate the efficacy of our approach, we conduct experiments comparing our algorithm ILSH with existing methods such as Post-hoc itself, a relaxed version utilizing Linear Programming instead of IP, and LSH.

In conclusion, we show that our heuristic can perform well and, at the same time, maintain closer estimates of the actual IP solution when compared to LSH. Regarding time to compute, ILSH takes less time than PhO (and still computes as good plans as Post-hoc), but on average, it costs up to one order of magnitude more time than LSH does to compute its estimate. Despite not being the fastest algorithm tested in this work, its superiority in plan quality and its reasonable total execution time make it an interesting alternative to the existing methods in the literature.

Keywords: Artificial Intelligence. Classical Planning. Heuristic Search. Post-hoc Heuristic. Integer Linear Programming.

Um Novo Algoritmo Guloso para Estimar o Método Post-Hoc

RESUMO

Funções heurísticas estimam o quão longe cada estado está da condição objetivo e têm sido amplamente utilizadas para guiar a busca no espaço de estados para resolver tarefas de planejamento. Funções heurísticas efetivas encontram um bom meio-termo entre velocidade computacional e qualidade nas suas estimativas. Diversas heurísticas foram propostas na literatura e uma técnica chamada Post-hoc Optimization (PhO) tem atraído certa atenção desde a sua ideação. PhO é uma técnica efetiva para combinar heurísticas de abstração em um programa inteiro (IP) onde a função objetivo é a soma dos custos aplicados pelos operadores em um plano ótimo. Como PhO se baseia em IPs, nós geralmente o calculamos usando resolvedores IP genéricos, o que pode torná-lo relativamente lento para computar se compararmos com outras heurísticas.

Estimar a solução do PhO pode ser mais rápido que resolvê-lo. Local Search Heuristic (LSH) computa essas estimativas tomando decisões gulosas em cada passo visando satisfazer as restrições do IP. Neste trabalho, nós introduzimos um novo algoritmo guloso chamado Improved Local Search Heuristic (ILSH) que combina conceitos do LSH. Inspirado nos algoritmos de aproximação para o problema de cobertura de conjuntos (Johnson, 1974; Lovász, 1975; Chvatal, 1979), nosso algoritmo visa estimar PhO suficientemente bem e, ao mesmo tempo, computá-lo mais rapidamente que o próprio PhO de tal forma que possamos aplicá-lo em contextos maiores.

Para avaliar a eficácia da nossa abodagem, conduzimos experimentos comparando nosso algoritmo ILSH com métodos já existentes como o próprio Post-hoc, uma versão relaxada usando programação linear ao invés de IP, e o LSH.

Por fim, nós mostramos como nossa heurística pode performar bem e, ao mesmo tempo, manter estimativas mais próximas a solução do IP quando comparado ao LSH. Em relação a tempo de computação, ILSH toma menos tempo que PhO (mesmo computando planos tão bons quanto ele), mas, em média, custa até uma ordem de magnitude mais tempo do que LSH custa para computar a estimativa. Apesar de não ser o algoritmo mais rápido testado neste trabalho, sua superioridade em qualidade do plano e seu tempo de execução razoável faz com que ele seja uma alternativa interessante para os métodos existentes na literatura.

Palavras-chave: Planejamento clássico. Inteligência artificial. Heurística Post-hoc. Pro-

gramação Linear.

LIST OF FIGURES

LIST OF TABLES

LIST OF ABBREVIATIONS AND ACRONYMS

AI   Artificial intelligence

GBFS   Greedy best-first search

ILSH   Improved local search heuristic

IP   Integer program

LP   Linear program

LSH   Local search heuristic

PhO   Post-hoc Optimization

CONTENTS

1 INTRODUCTION

Planning tasks can model several applications. A planning task, along with other information, models the state that the problem starts (describing the information that is true when starting the problem solving), the actions that can be performed to transition between states, and the desired state that, once achieved, the problem is solved. The main goal of AI planning is the development of a general planner capable of solving planning tasks regardless of their specific application domain. Since planners look to deal with different domains and complexities, they must perform efficient searches because the problems can be very complex, with billions (and even more) of states, which means that a naive exploration may impact directly on finding or not a solution to the problem. State-of-the-art general planners perform a heuristic search on the state space of a given task to find a sequence of actions that leads to the goal. They use heuristic functions that estimate how far each state is from the goal to guide their search. With heuristic search, it's possible to decrease considerably the amount of explored states before finding a solution. Post-hoc Optimization (PhO) is a technique that combines information from multiple heuristics using an integer program (IP). PhO can provide goal distance estimations that are more informed than the combined heuristics individually. Using Post-hoc to combine heuristics to improve the estimate has been used since its proposal (Pommerening; Röger; Helmert, 2013; Röger; Pommerening, 2015; Pommerening et al., 2015; Höft; Speck; Seipp, 2023). However, it can be relatively expensive to compute. If we don't need the guarantee of an optimal plan then we can use algorithms without this characteristic once they can perform more efficiently than PhO.

Doebber et al. (2024) propose a fast greedy algorithm to estimate Post-hoc, called Local Search Heuristic (LSH). LSH has been showing interesting results in practical scenarios. It shows that a straightforward greedy estimation of PhO can produce a good guide for the search in practice. However, LSH estimates are sometimes far from the actual PhO solution, which may impact the quality of the plan found at the end of the search.

In this work, we introduce the Improved Local Search Heuristic (ILSH) algorithm, which uses concepts from approximation algorithms to estimate PhO, trying to compute closer estimates than LSH. In comparison to LSH, ILSH applies a more elaborate greedy decision that, at the cost of time, results in better plans than LSH (and even PhO) for most of our benchmarks.

2 BACKGROUND

2.1 Classical Planning

A classical planning task can be defined as a 5-tuple $\Pi = \langle V, O, I, \gamma, cost \rangle$, where:

- V is a finite set of state variables.

- O is a finite set of operators.

- I represents the initial state.

- γ is a partial state known as the goal.

- $cost$ is a function that assigns non-negative costs to operators.

In this context, a state variable $v \in V$ holds a value based on its domain $dom(v)$. A partial state or valuation is an assignment of values to variables on their domains. A state is an assignment of values for all variables within V. Given two partial states p and p', we say that $p \models p'$ (p satisfies p') if all assignments made in p' are also made in p. An operator $o \in O \mid o = \langle \text{pre}; \text{eff} \rangle$ describes how the agent transitions between states, where pre and eff are partial states defining preconditions to execute the operator and effects that the operator does on the current state, respectively. An operator o is applicable in the state s if $s \models \text{pre}$. Also, we say that the resulting state after applying the operator $o = \langle \text{pre}; \text{eff} \rangle$ over a state s is $s[\![o]\!]$ such that $s[\![o]\!] \models \text{eff}$ while still maintaining the same values for the variables that are not present in the effect. The function $cost : O \to \mathbb{R}_0^+$ determines the cost associated with executing an operator $o \in O$.

A s-plan is a sequence of operators $\pi = \langle o_1, o_2, o_3, ...o_n \rangle$ that takes one to a goal state from s. The cost of a s-plan π is the sum of the costs for all used operators: $cost(\pi) = \sum_{i=1}^{|\pi|} cost(o_i)$. The solution of a planning task is a I-plan, or simply a *plan*. A plan is a sequence of operators that takes one to a goal state from the initial state.

2.1.1 Computing Transition Systems from Planning Tasks

A transition system is a 6-tuple $\mathcal{T} = \langle S, L, c, T, s_0, S_* \rangle$ where

- S is a finite set of states.

- L is a finite set of labels.

- $c : L \to \mathbb{R}_0^+$ is a label cost function.

- $T \subseteq S \times L \times S$ is the transition relation.

- $s_0 \in S$ is the initial state.

- $S_* \subseteq S$ is the set of goal states.

A planning task compactly represents a transition system. We can induce the transition system of the planning task $\Pi = \langle V, O, I, \gamma, cost \rangle$. $\mathcal{T}(\Pi) = \langle S, O, cost, T, I, S_* \rangle$, such that:

- S is the set of all states over V.

- $T = \{\langle s, o, s' \rangle \mid s \in S, o \text{ applicable in } s, s' = s[\![o]\!]\}$.

- $S_* = \{s \in S \mid s \models \gamma\}$ is the set of goal states.

Computing the explicit transition system of a planning task is usually prohibitively large, as the number of states grows exponentially on the number of variables.

2.1.2 Example Task: Logistics

For illustration purposes, consider a logistics task involving a truck and a package that needs to be transported among three different locations: A, B, and C. The truck can move between these locations, either carrying the package or not. The truck can load and unload packages at locations.

The task can be formalized as follows:

$$V = \{\texttt{truck-at}, \texttt{package-at}\}$$
$$\text{dom}(\texttt{truck-at}) = \{A, B, C\}$$
$$\text{dom}(\texttt{package-at}) = \{A, B, C, \texttt{truck}\}$$
$$I = \{\texttt{truck-at} = A, \texttt{package-at} = B\}$$
$$\gamma = \{\texttt{package-at} = C\}$$
$$O = \{move(src, tgt), load(loc), unload(loc)$$
$$\mid src, tgt, loc \in \{A, B, C\}, src \neq tgt\}$$
$$cost(o) = 1 \quad \forall o \in O$$

where

$$move(src, tgt) = \langle \texttt{truck-at} = src; \texttt{truck-at} = tgt \rangle$$

$$load(loc) = \langle \texttt{truck-at} = loc \wedge \texttt{package-at} = loc; \texttt{package-at} = \texttt{truck} \rangle$$

$$unload(loc) = \langle \texttt{truck-at} = loc \wedge \texttt{package-at} = \texttt{truck}; \texttt{package-at} = loc \rangle$$

In this example, a possible plan could involve moving the truck from A to B using the operator $move(A, B)$, loading the package into the truck with $load(B)$, then moving from B to C with $move(B, C)$ and unloading the package with $unload(C)$. This plan would be formally defined as $\pi = \langle move(A, B), load(B), move(B, C), unload(C) \rangle$. It has a cost of four, once it contains four operators, and each of them has unitary cost $cost(\pi) = cost(move(A, B)) + cost(load(B)) + cost(move(B, C)) + cost(unload(C)) = 1 + 1 + 1 + 1 = 4$. As we can easily see, π is an optimal plan for this problem.

The transition system induced by this planning task can be seen in Figure 2.1.

Figure 2.1 – Transition system of the Logistics task.
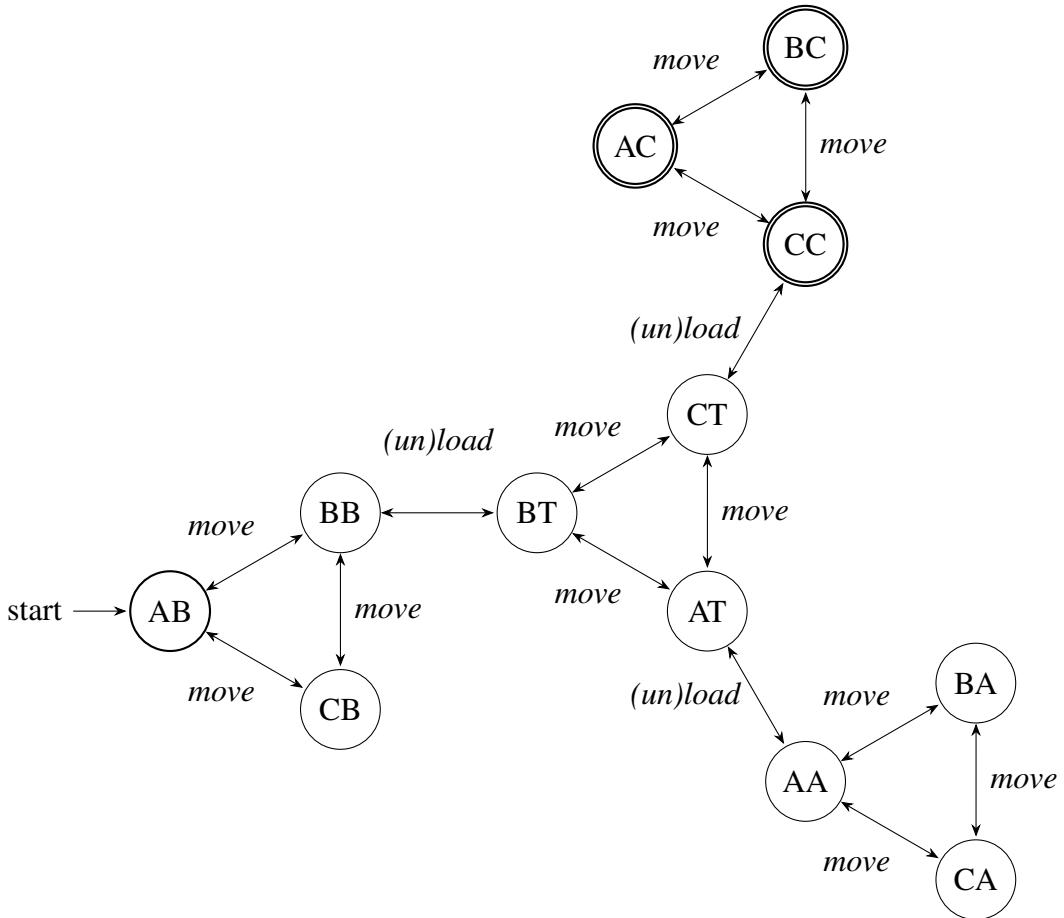
2.2 Greedy Best-First Search

There are distinct search algorithms for exploring state-spaces. In planning, search algorithms explore the state-space of the task to find a goal state. Once it finds a goal, it computes the plan with the information retrieved from this search. One of these algorithms is Greedy Best-First Search (GBFS) (Doran; Michie, 1966), which always expands the most promising not-yet-expanded generated state. For that, the algorithm evaluates the state using a heuristic function. A heuristic function is a function $h : S \rightarrow \mathbb{R}_0^+$ that tries to estimate how costly it is to reach the goal from a state. When expanding a state s, GBFS generates and stores all states resulting from applying operators to s. The pseudocode of GBFS is presented in Algorithm 1.

Algorithm 1: Greedy Best-First Search Algorithm

1 $Open \leftarrow \{make\_initial\_node(s_0)\}$
2 **while** $Open \neq \emptyset$ **do**
3 $\quad n \leftarrow \underset{n \in Open}{\operatorname{argmin}}\, h(n.state)$
4 $\quad$ **if** $is\_goal(n.state)$ **then**
5 $\quad\quad$ **return** $extract\_plan(n)$
6 $\quad$ **foreach** $n' \in succ(n)$ **do**
7 $\quad\quad$ $process\_succ(n')$

8 **return** $\perp$

Let's take a look at an example. For that, consider the Logistics problem and a heuristic h arbitrarily chosen.

1. GBFS starts with the initial state $s_0 = \{\texttt{truck-at} = A, \texttt{package-at} = B\}$ as it is the state of the only node initially in $Open$. GBFS remove the node of s_0 from $Open$, computing all the states that can be reachable directly from s_0 through the operators *move*, *load*, and *unload*, which are:

   - $s_1 = \{\texttt{truck-at} = B, \texttt{package-at} = B\}$, through *move*$(A, B)$.
   - $s_2 = \{\texttt{truck-at} = C, \texttt{package-at} = B\}$, through *move*$(A, C)$.

   GBFS, then, marks each of them as a node yet to be expanded by inserting them in $Open$. GBFS chooses the most promising state among the ones in $Open$. Let's say that, $h(s_1) = 3$ and $h(s_2) = 4$. Based on that, GBFS chooses s_1.

2. Since the state s_1 is not a goal, we start generating its successors:

- s_0, through *move*(B, A).

- s_2, through *move*(B, C).

- $s_3 = \{\texttt{truck-at} = B, \texttt{package-at} = \texttt{truck}\}$, through *load*$(B)$.

The successors of s_1 are inserted in $Open$, except those already expanded (namely s_0) or those already in $Open$ (namely s_2). Let's say that $h(s_3) = 2$. GBFS continues by selecting s_3 from $Open$ instead of s_2 because it has a smaller heuristic value. It is not a goal state either, so it is expanded.

3. Expanding s_3, we generate the following states:

   - s_1, through *unload*(B).

   - $s_4 = \{\texttt{truck-at} = C, \texttt{package-at} = \texttt{truck}\}$, through *move*$(B, C)$.

   - $s_5 = \{\texttt{truck-at} = A, \texttt{package-at} = \texttt{truck}\}$, through *move*$(B, A)$.

   The state s_1 is already expanded, so we ignore it and insert the others in $Open$. Let's say $h(s_4) = 1$ and $h(s_5) = 2$. The next chosen state is s_4. Also not a goal state.

4. s_4 is expanded, generating the following states:

   - s_5, through *move*(C, A).

   - s_3, through *move*(C, B).

   - $s_6 = \{\texttt{truck-at} = B, \texttt{package-at} = C\}$, through *unload*$(C)$.

   The state s_3 is already expanded and the state s_5 is already in $Open$, so we ignore them. Only s_6 is inserted in $Open$. Let's say $h(s_6) = 0$. Then s_6 is selected.

5. s_7 is a goal state, so the search is finished, and the following plan is extracted from the information stored in the node of s_7:
   $\pi = \langle \textit{move}(A, B), \textit{load}(B), \textit{move}(B, C), \textit{unload}(C) \rangle$.

Note that the chosen heuristic h provides the exact cost for reaching a goal from each state. We call a heuristic with such property a *perfect heuristic* (denoted h^*). For each state $s \in S$, $h^*(s)$ returns the minimal cost of a s-plan, and ∞ if there is no s-plan.

2.3 Abstractions

Abstractions are functions $\alpha : S \to S^\alpha$ that maps concrete states into abstract states. We call $\alpha(s)$ an abstract state based on the concrete state $s \in S$. Using abstractions,

we can transform the original transition system of a task $\mathcal{T}(\Pi) = \langle S, L, c, T, s_0, S_* \rangle$ into an abstract transition system $\mathcal{T}^\alpha(\Pi) = \langle S^\alpha, L, c, T^\alpha, \alpha(s_0), S_*^\alpha \rangle$ such that $S^\alpha = \{\alpha(s) \mid s \in S\}$, $T^\alpha = \{(\alpha(s), l, \alpha(s')) \mid t = (s, l, s') \in T\}$, and $S_*^\alpha = \{\alpha(s_*) \mid s_* \in S_*\}$. Equivalently, the original planning task Π can also be abstracted with α, yielding an abstract planning task Π^α with $\mathcal{T}(\Pi^\alpha) = \mathcal{T}^\alpha(\Pi)$.

With abstractions, it's possible to induce heuristics considering the optimal plan for solving the abstract planning task. Formally speaking, $h^\alpha(s) = h^*(\alpha(s))$. Abstraction heuristics provide a lower bound for $h^*(s)$ of the original task (Culberson; Schaeffer, 1998; Helmert; Haslum; Hoffmann, 2007), since, as abstractions only combine different states keeping the transitions of the original task, a path for solving an abstract planning task never is more costly than equivalent paths in the original task.

2.3.1 Pattern Databases

A pattern is a type of abstraction that removes zero or more variables from the original task, resulting in an abstract transition system that is not capable of differentiating states that only differ in the original system by the removed variables. The notation of a heuristic based on a pattern P is h^P, where P is the subset of variables that the pattern contains. Formally speaking, $P \subseteq V$.

A pattern database heuristic (PDB) is a pre-computed pattern-based abstraction heuristic h^P. A PDB is usually stored in the memory, allowing it to be efficiently used to guide the search. Note that, in order to be stored in the memory, the abstract transition system resulting from the abstraction must be sufficiently small, meaning that P is usually composed of few variables in practice.

2.3.1.1 Example

Consider the Logistics task presented before. We can build an abstraction based on the pattern {package-at}. The abstraction transition system for this pattern has only four different states (which are all the possible values for the variable package-at). The transition system of the abstract logistics task can be seen in Figure 2.2.

Then, we can compute the heuristic $h^{\{\text{package-at}\}}$ based on the abstraction provided by this pattern.

- If the state s contains package-at $= C$, then $h^{\{\text{package-at}\}}(s) = 0$, since this is

Figure 2.2 – Abstract transition system for the Logistics task presented in the Section 2.1.2 where only the `package-at` is considered to differentiate states
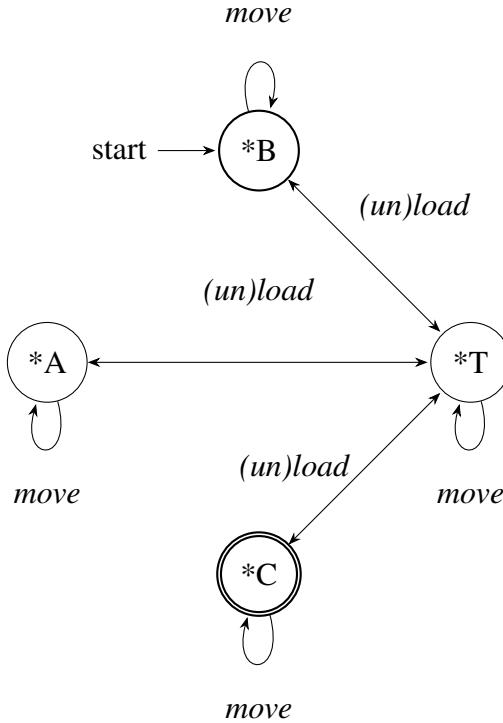
a goal state on abstract transition system, as the package is already located at the C position.

- If the state s contains $\texttt{package-at} = \texttt{truck}$, then $h^{\{\texttt{package-at}\}}(s) = 1$, as there is the need for the use of the action *unload*(C) to reach the goal on the abstract transition system.

- If the state s contains $\texttt{package-at} = pos \mid pos \in \{A, B\}$, then $h^{\{\texttt{package-at}\}}(s) = 2$, as there is the need for the use of the actions *load*(pos) and *unload*(C) to reach the goal on the abstract transition system.

2.3.2 Inferring Constraints over Operators

In a transition system $\mathcal{T}$, we say a label l affects $\mathcal{T}$ if there is at least one transition $s \xrightarrow{l} s'$ where $s \neq s'$, in $\mathcal{T}$. An operator o is irrelevant for a transition system if o does not affect it. For any given state s and any s-plan π, it must be true that $\sum_{o \in \mathit{affect}(\mathcal{T})} t_o \cdot cost(o) \geq h^*(s)$, where t_o is the number of times the operator o appear in π, and $\mathit{affect}(\mathcal{T})$ contains

all operators that affect $\mathcal{T}$.

For a given abstraction heuristic h^α, we define $affect(h^\alpha)$ as the set of operators that affect $T(\Pi^\alpha)$. If h^α is a pattern database heuristic over the pattern P, we can infer $affect(h^\alpha)$ by verifying which operators $o = \langle \text{pre}; \text{eff} \rangle$ have at least one variable in P mentioned in eff. This is important because once we know $affect(h^\alpha)$, we can infer the following constraint that must be true for any $\alpha(s)$-plan: $\sum\limits_{o \in affect(h^\alpha)} t_o \cdot cost(o) \geq h^\alpha(s)$. And consequently, in any s-plan on the original task.

2.4 Integer Programming

Mathematical optimization is a field of study where you model optimization problems in order to maximize or minimize an arbitrary function, taking constraints into account. On this work, we are interested in a sub-field of mathematical optimization called integer programming where we have a matrix $A \in \mathbb{R}^{m \times n}$, two column vectors $b \in \mathbb{R}^m$ and $c \in \mathbb{R}^n$, and want to find a column vector $x \in \mathbb{Z}^n$ such that $Ax \geq b$ and $c^\top x$ is minimum (Korte et al., 2011).

An integer program (IP) is an instance of integer programming and can be shown as follows:

$$\begin{aligned} \text{minimize} \quad & \sum_{i=1}^{n} c_i x_i \\ \text{subject to} \quad & \sum_{i=1}^{n} A_{i,j} x_i \geq b_j \quad \forall j \in \{1, ..., m\} \end{aligned}$$

This problem looks for an assignment of values to the variables (x) that minimizes the function $(c^\top x)$ while satisfying all constraints. The values of A, b, and c are constants.

2.5 Combining Heuristics

If we have multiple heuristics, we might be interested in combining the information provided by them. A straightforward way of combining heuristics is by taking their average. However, if we know that a set of heuristics $\{h_1, h_2, \ldots, h_n\}$ never overestimates the perfect heuristic h^*, we can combine their information through $h(s) = \max\{h_1(s), h_2(s), \ldots, h_n(s)\}$. This way, we return, for each state s, the most accurate estimation provided by any of them.

2.5.1 Operator Counting – Post-hoc Optimization

An operator counting constraint is a linear inequality that models information we know regarding the number of times each operator needs to appear in any s-plan for each state s. The constraints that we infer from abstractions are operator counting constraints.

The operator counting framework (Pommerening et al., 2014) constructs an IP to correlate these constraints. The IP it constructs has a non-negative integer variable for each operator – representing the number of times we use that operator –, and a constraint for each known operator counting constraint. The objective function of the IP is to minimize the summed cost of used operators while satisfying all constraints.

Post-hoc Optimization (Pommerening; Röger; Helmert, 2013) is a framework subtype of operator counting where all constraints have the same format as the constraints we infer from abstractions. Specifically, a Post-hoc IP always looks like the following:

$$\text{minimize} \quad \sum_{o_i \in O} cost(o_i) \cdot x_i$$

$$\text{subject to} \quad \sum_{o_i \in affect(h_j)} cost(o_i) \cdot x_i \geq h_j(s) \quad j = 1, \ldots, m$$

$$x_i \geq 0 \qquad \qquad \forall o_i \in O$$

If none of the incorporated heuristics h_j ever overestimate the perfect heuristic, the estimate PhO provides for s is guaranteed to be at least as good as the best estimate any of them individually provide (Pommerening; Röger; Helmert, 2013).

2.5.1.1 Example Task: Increments

To exemplify the technique, take a look at the following task $\Pi = \langle V, I, O, \gamma, cost \rangle$, called *Increments*:

$$V = \{A, B, C\}$$
$$dom(v) = \{0, 1, 2, 3\} \quad \forall v \in V$$
$$I = \{A = 0, B = 0, C = 0\}$$
$$\gamma = \{A = 3, B = 3, C = 3\}$$
$$O = \{inc(v, x)\} \mid v \in V, x \in \{0, 1, 2\}$$
$$cost(o) = 1 \quad \forall o \in O$$

where the operators are defined as follows

$$inc(v, x) = \langle v = x; v = (x + 1) \rangle$$

Suppose that our heuristics set is $H = \{h^P \mid \forall P \in \{\{A, B\}, \{A, C\}, \{B, C\}\}\}$. Since each pattern has size two, each heuristic considers the cost of setting a pair of variables to the goal value of three. Therefore, $h^{\{A,B\}}(I) = h^{\{A,C\}}(I) = h^{\{B,C\}}(I) = 6 -$ the cost of applying six increment operators, three for each variable in the pattern.

If we just sum up the estimation provided by all the heuristics, we will end up having a heuristic value far higher than the perfect heuristic value (which, in this case, is nine). Getting the maximum or mean from all these heuristics gives a heuristic of six, which is still relatively far from perfect. On the other hand, by applying the Post-hoc Optimization operator counting technique, we can get a better heuristic (in this case, the perfect heuristic value for I).

The constraints inferred from the abstractions are defined as follows

$$\sum_{v \in P} \sum_{i=0}^{2} x_{inc(v,i)} \geq h^P(s) \tag{2.1}$$

Note that, when an operator that affects a variable v (e.g. $inc(v, i) \mid i \in \{0, 1, 2\}$) occurs in a constraint, all the other operators that affect this variable also occur. Because of that, we can simplify these constraints using the following definition:

$$x_{\text{type}-v} = \sum_{x=0}^{2} x_{inc(v,x)} \tag{2.2}$$

With this simplification, we can build a much easier IP with fewer variables. Based on this optimization and the heuristic set H, we have the following IP for the initial state:

$$\text{minimize} \quad \sum_{v \in \{A,B,C\}} x_{\text{type}-v}$$

$$\text{subject to} \quad x_{\text{type}-A} + x_{\text{type}-B} \geq 6$$

$$x_{\text{type}-B} + x_{\text{type}-C} \geq 6$$

$$x_{\text{type}-A} + x_{\text{type}-C} \geq 6$$

$$x_{\text{type}-v} \geq 0 \qquad \forall v \in \{A, B, C\}$$

The solution for the IP that minimizes the optimization function assigns $x_{\text{type}-A} = x_{\text{type}-B} = x_{\text{type}-C} = 3$. Therefore, the heuristic value that Post-hoc provides for I is the exact perfect heuristic value, nine.

3 ALGORITHMS FOR SOLVING POST-HOC

As outlined in the preceding sections, the Post-hoc method results in an integer program aimed at estimating the minimal cost associated with reaching a goal state from an arbitrary state. Each variable in the program represents the number of times we use each operator, and each constraint represents our knowledge regarding the required use of operators.

While state-of-the-art integer program general solvers can compute Post-hoc, they are relatively slow in practice. Alternatively, we can abandon the pursuit of perfectly computing Post-hoc in favour of estimations of its value. A straightforward way of doing that is to employ linear programming solvers to the task. We can relax an integer program by removing the constraints that enforce that variables must take only integer values. This relaxation allows faster heuristic values. However, even with the relaxed integer constraint, LP solvers can still be slow as they ensure finding the optimal solution for the relaxed problem.

Taking a further step towards relaxation involves completely discarding the idea of using general optimization solvers and developing a greedy algorithm to estimate Post-hoc. Even though greedy algorithms lack optimality guarantees, they can show good results in practice.

3.1 Solving Post-hoc with General IP Solvers

In the realm of integer programming, various general solvers aim to find optimal solutions. Several well-established IP solvers are available in the literature, including IBM's CPLEX (Cplex, 2009), GLPK (Makhorin, 2008), SCIP (Bestuzheva et al., 2021), and Gurobi (Gurobi Optimization, LLC, 2023).

However, solving general integer programming (IP) problems is NP-hard (Kannan; Monma, 1978), and no known polynomial-time algorithms exist for NP-hard problems. Doebber et al. (2024) proved that solving Post-hoc is as difficult as solving IPs. Therefore, in the worst case, using general IP solvers to compute Post-hoc (or any other algorithm that perfectly computes Post-hoc) requires exponential time on the size of the problem.

3.2 Solving Post-hoc with General LP Solvers

Integer Programs (IPs) share similarities with Linear Programs (LPs) but differ in an important aspect: the constraints on variable assignments. IPs restrict variables to integer values, while LPs do not. While solving IPs in general is an NP-hard task, there are polynomial-time algorithms that generally solve LPs – such as the ellipsoid method (Bland; Goldfarb; Todd, 1981). When we relax the integrality constraints of IPs generated from the Post-hoc method, we open the door to faster approaches to estimating Post-hoc, introducing a trade-off between heuristic quality and computational efficiency.

3.3 Solving Post-hoc with Greedy Algorithms

While relaxing IPs to LPs yields more efficient approaches, there are still room for improvements, especially in the context of Post-hoc, where IPs have a very specific structure given by:

$$\text{minimize} \quad \sum_{o \in O} cost(o) \cdot x_o$$

$$\text{subject to} \quad \sum_{o \in affect(j)} cost(o) \cdot x_o \geq h_j \quad j = 1, \ldots, m$$

$$x_o \geq 0 \qquad \qquad \forall o \in O$$

In the pursuit of more efficient estimations, we look into algorithms that employ iterative greedy increments of variable values until all constraints are satisfied. First, we show an algorithm from the literature. Then, we introduce a new greedy algorithm that, based on the one from the literature and concepts from approximation algorithms, tries to take the best choices on each greedy assignment, seeking to minimize the cost that will be required to satisfy all constraints.

3.3.1 Local Search Heuristic

The Local Search Heuristic[1], introduced by Doebber et al. (2024), is a greedy algorithm for estimating Post-hoc.

The idea behind Doebber's approach is to iterate over all the constraints, iteratively satisfying them by incrementing the operators that are relevant for each constraint one by one. The increments occur cyclically, starting with the first operator variable that appears in the constraint and continuing to the next one (or moving back to the first one to repeat the sequence) until the constraint is satisfied.

A pseudo-code of the algorithm can be seen in Algorithm 2.

Algorithm 2: Local Search Heuristic

1   **foreach** $o \in O$ **do**
2     $x_o \leftarrow 0$
3   **foreach** $h_i \in H$ **do**
4     $remaining_i \leftarrow h_i(s)$
5   **foreach** $h_i \in H$ **do**
6   **if** $remaining_i = 0$ **then**
7   continue
8   **foreach** $o \in affect(h_i)$ **do**
9       $x_o \leftarrow x_o + 1$
10   **foreach** $h_j \in H \mid o \in affect(h_j)$ **do**
11         $remaining_j \leftarrow \max(0, remaining_j - cost(o))$
12   **if** $remaining_i = 0$ **then**
13   break
14   **return** $\sum\limits_{o \in O} x_o \cdot cost(o)$

For exemplifying, consider the following IP instance:

$$
\begin{aligned}
\text{minimize} \quad & \sum_{i=1}^{4} cost(o_i) \cdot x_i \\
\text{subject to} \quad & x_1 + x_2 + x_3 \geq 2 \\
& x_1 + x_3 + 3 \cdot x_4 \geq 2 \\
& x_2 + x_3 + 3 \cdot x_4 \geq 2 \\
& x_j \geq 0, \qquad\qquad i = 1, \ldots, 4
\end{aligned}
$$

Starting with all variables initialized to 0, the LSH algorithm incrementally assigns

---

[1]The name "Local Search Heuristic" may change once Doebber et al.'s work has not been published yet.

values to variables to satisfy constraints. For example, to satisfy the first constraint, x_1 is incremented, followed by x_2, where the constraint is met. This process continues for subsequent constraints, ensuring feasibility.

Applying the LSH algorithm to the provided IP, the following steps are taken:

1. Constraint 1: Increment x_1 and x_2 to satisfy the constraint.

2. Constraint 2: Increment x_1 again to satisfy the constraint.

3. Constraint 3: Increment x_2 again to satisfy the constraint.

At the end of the iterations, the solution is $x_1 = x_2 = 2$ and $x_3 = x_4 = 0$, resulting in an objective function value of $2 + 2 + 0 + 3 \cdot 0 = 4$. It's important to note that, while this solution is not optimal – as the optimal solution value is 2 with $x_1 = x_2 = x_4 = 0$ and $x_3 = 2$ –, the LSH algorithm provides a computationally simple and feasible solution which, in practice, has been showing to be considerably effective.

4 IMPROVED LOCAL SEARCH HEURISTIC

Making greedy decisions to satisfy the constraints is a primary concept in LSH. However, the decision-making process of this algorithm only considers operators of each specific constraint at a time. In addition, the algorithm does not make efforts to evaluate which operator to increment between the ones that affect a constraint, just grabbing them cyclically, as elucidated in the previous section. Deciding which operators to increment directly affects the quality of the resulting PhO estimate.

Our algorithm proposes a different function to guide the greedy choices. The Improved Local Search Heuristic (ILSH) estimates PhO using the concept of operator performance, which we will better explain in future sections. With this concept, we look for all the operators that can bring the constraints closer to satisfaction, not only for the ones of a specific constraint.

Computation efficiency is one of the most fundamental aspects of LSH. The efficiency of the algorithm relies on its simple decision process. On the other hand, ILSH has a not-so-simple decision process. Therefore, to try to compensate for its computation overhead, ILSH incorporates a method to decide by how much each selected operator should be incremented, instead of always incrementing them just by one, potentially accelerating the process of satisfying the constraints.

We introduce our algorithm (Algorithm 3), which was strongly influenced by the approximation algorithms for set cover (Johnson, 1974; Lovász, 1975; Chvatal, 1979). These algorithms iteratively select a set to add to the solution, which we similarly do but for the operators to increment.

On this algorithm, the $get\_operator$ method plays a crucial role in determining the algorithm's behavior. The $get\_operator$ method defines which operator to select, directly affecting the algorithm effectiveness to estimate PhO. On the other hand, $get\_times\_to\_increment$ has a different purpose, serving more as an optimization.

Note that we can always increment by one the variable representing the selected operator and leave the next increment for the next iteration. However, for the cases where the algorithm picks the same operator more than once in a row, we would waste computation effort because we need to select the operator on every iteration, which can be costly.

Algorithm 3: Improved Local Search Heuristic

1   $R \leftarrow \{h \in H\} \mid h(s) > 0$
2   **foreach** $o \in O$ **do**
3     $x_o \leftarrow 0$
4   **foreach** $h_i \in H$ **do**
5     $remaining_i \leftarrow h_i(s)$
6   **while** $|R| > 0$ **do**
7     $o_b \leftarrow get\_operator()$
8     $t_o \leftarrow get\_times\_to\_increment(o)$
9     $x_o \leftarrow x_o + t_o$
10   **foreach** $h_i \in H \mid o \in affect(h_i)$ **do**
11       $remaining_i \leftarrow \max(0, remaining_i - (t_o \cdot cost(o)))$
12   **if** $remaining_i = 0$ **then**
13         $R \leftarrow R \setminus \{h_i\}$

14   **return** $\sum\limits_{o \in O} x_o \cdot cost(o)$

4.1 Choosing the Operator to Increment

To determine the operator to increment, $get\_operator$ utilizes the concept of operator performance briefly introduced in the previous subsection. The operator performance in this heuristic stems from ideas from the approximation algorithms field (Kleinberg; Tardos, 2006). The greedy decision in the approximation algorithms for set cover minimizes the cost paid per new covered element when greedily selecting a new set to be part of the solution. We do a similar thing here. When greedily selecting an operator o to increment, we compute the amount of "contribution" the increment of that operator results.

$$contribution(o) = \sum_{h_i \in H \mid o \in affect(h_i)} \min(cost(o), remaining_i) \tag{4.1}$$

Intuitively speaking, the contribution of an operator tells how much closer the constraints will be to satisfied after incrementing this operator by one. Within a specific constraint, if the operator cost is superior to its $remaining$ value, the operator contribution saturates at the $remaining$ value because, for this constraint, we can't contribute more to the satisfaction of a constraint than actually satisfying it. Otherwise, the contribution of this operator to this restriction is precisely its cost.

Note that if the greedy decision to choose which operator to increment considered just the operator contribution regardless of their costs, we would always pick the one with more constraints to be affected, which may be a problem for operators with high

costs. For that, we calculate the performance by dividing the contribution by the cost of incrementing the operator, punishing operators with higher costs over the ones with lower.

$$performance(o) = \frac{contribution(o)}{cost(o)} \tag{4.2}$$

4.1.1 Example of Execution

Consider the IP presented in the LSH section.

$$
\begin{aligned}
\text{minimize} \quad & \sum_{i=1}^{4} cost(o_i) \cdot x_i \\
\text{subject to} \quad & x_1 + x_2 + x_3 \geq 2 \\
& x_1 + x_3 + 3 \cdot x_4 \geq 2 \\
& x_2 + x_3 + 3 \cdot x_4 \geq 2 \\
& x_j \geq 0, \qquad\qquad i = 1, \ldots, 4
\end{aligned}
$$

Initially, the $remaining$ values are initialized as follows:

$$
\begin{aligned}
remaining_1 &\leftarrow h_1(s) = 2 \\
remaining_2 &\leftarrow h_2(s) = 2 \\
remaining_3 &\leftarrow h_3(s) = 2
\end{aligned}
$$

Taking into account that $\{h_i \in H \mid o_1 \in \mathit{affect}(h_i)\} = \{h_1, h_2\}$ in this example. The contribution of o_1 is

$$
\begin{aligned}
contribution(o_1) &= \sum_{h_i \in H \mid o_1 \in \mathit{affect}(h_i)} \min(cost(o_1), remaining_i) \\
&= \min(1, 2) + \min(1, 2) \\
&= 1 + 1 = 2
\end{aligned}
$$

Then, the performance of o_1 in the first iteration of ILSH is given by:

$$performance(o_1) = \frac{contribution(o_1)}{cost(o_1)} = \frac{2}{1} = 2$$

Doing the same for all the other operators, we have:

$$performance(o_2) = \frac{contribution(o_2)}{cost(o_2)} = \frac{\min(1,2) + \min(1,2)}{1}$$
$$= \frac{1+1}{1} = 2$$

$$performance(o_3) = \frac{contribution(o_3)}{cost(o_3)} = \frac{\min(1,2) + \min(1,2) + \min(1,2)}{1}$$
$$= \frac{1+1+1}{1} = 3$$

$$performance(o_4) = \frac{contribution(o_4)}{cost(o_4)} = \frac{\min(3,2) + \min(3,2)}{3}$$
$$= \frac{2+2}{3} \approx 1.33$$

In this case, the operator o_3 performs better, making the algorithm select it at the iteration represented above. Incrementing the variable representing operator o_3 by one unit, we update the $remaining$ values regarding the heuristic h_1, h_2, and h_3 (the ones affected by the operator).

$$remaining_1 \leftarrow remaining_1 - cost(o_3) = 2 - 1 = 1$$
$$remaining_2 \leftarrow remaining_2 - cost(o_3) = 2 - 1 = 1$$
$$remaining_3 \leftarrow remaining_3 - cost(o_3) = 2 - 1 = 1$$

On the next iteration, we repeat the process of computing the performance of the operators. Now, we have the following.

$$performance(o_1) = \frac{contribution(o_1)}{cost(o_1)} = \frac{\min(1,1) + \min(1,1)}{1}$$
$$= \frac{1+1}{1} = 2$$

$$performance(o_2) = \frac{contribution(o_2)}{cost(o_2)} = \frac{\min(1,1) + \min(1,1)}{1}$$
$$= \frac{1+1}{1} = 2$$

$$performance(o_3) = \frac{contribution(o_3)}{cost(o_3)} = \frac{\min(1,1) + \min(1,1) + \min(1,1)}{1}$$
$$= \frac{1+1+1}{1} = 3$$

$$performance(o_4) = \frac{contribution(o_4)}{cost(o_4)} = \frac{\min(3,1) + \min(3,1)}{3}$$
$$= \frac{1+1}{3} \approx 0.66$$

Then, we select o_3 again and increment it by one unit. After that, we update the *remaining* values.

$$remaining_1 \leftarrow remaining_1 - cost(o_3) = 1 - 1 = 0$$
$$remaining_2 \leftarrow remaining_2 - cost(o_3) = 1 - 1 = 0$$
$$remaining_3 \leftarrow remaining_3 - cost(o_3) = 1 - 1 = 0$$

With this increment, we satisfy all the constraints and the ILSH estimate is

$$h_{ilsh}^{pho}(s) = \sum_{i=1}^{4} cost(o_i) \cdot x_i = 0 + 0 + 2 + 4 \cdot 0 = 2$$

Note that the operators' performances never increase after an increment because the *remaining* values can only decrease. Also, the performance of o_3 did not change, which made us do another iteration that we could have saved if we incremented x_3 twice at once. In the following subsection, we present how we can skip unnecessary iterations.

4.2 Incrementing Operators

The increment decision directly influences the heuristic's quality and speed. We want to find a balance because too few increments may result in prolonged iterations, while excessive increments can lead to bad (unnecessarily large) variable assignments.

In this study, we explore a conservative approach. The aim is to increment by the maximum possible number until the operator's performance changes, ensuring a streamlined heuristic with no unnecessary iterations. In other words, we carefully increment the operator, ensuring that the performance in the next iteration is not the same as in the present iteration. If we don't do that, we will always have the same operator selection in the next iteration, once the performance of the operators cannot increase after an iteration, wasting time to compute this decision.

We calculate the increment for the selected operator o by rounding up the ratio between the minimum positive remaining value between the constraints affected by o to its cost ($cost(o)$). Formally speaking, the increment is defined as follows:

$$\lceil \frac{\min\limits_{h_i \in H | o \in affect(h_i) \wedge remaining_i > 0} remaining_i}{cost(o)} \rceil \tag{4.3}$$

If we apply it in the same example used in the previous section, where we pick o_3 to increment in the first iteration, we will now increment it in two units, solving the IP with the optimal solution straightly in the first iteration of ILSH.

$$\lceil \frac{\min\limits_{h_i \in H | o_3 \in affect(h_i) \wedge remaining_i > 0} remaining_i}{cost(o_3)} \rceil = \lceil \frac{\min(h_1(s), h_2(s), h_3(s))}{cost(o_3)} \rceil$$
$$= \lceil \frac{\min(2, 2, 2)}{1} \rceil$$
$$= \lceil \frac{2}{1} \rceil = 2$$

Incrementing by only one unit, o_3 performance will be unchanged, and o_3 will be picked again in the next iteration, making ILSH spend unnecessary effort.

5 EXPERIMENTS

To comprehensively compare the various heuristics related to PhO, we conduct experiments using Fast Downward (Helmert, 2006) and Downward Lab (Seipp et al., 2017). We use the GBFS for searching the state-space. The experiments are performed on a Linux machine with a CPU with 3.6GHz and 6 cores, with specific constraints of 30 minutes for task completion and 2GB of RAM usage. The execution occurred in parallel, with at most six simultaneous searches (which is the exact number of cores that the CPU provides).

5.1 Instance Selection and Preprocessing

We selected 275 classical planning tasks from the optimal track of International Planning Competitions (IPC). We can compute h^* for the selected instances within the memory and time limit that we have configured.

5.2 Heuristics and Abstractions

The heuristics examined in this study include:

- Post-hoc (h^{pho}).
- Post-hoc relaxed into a LP (h_{LP}^{pho}).
- Local Search Heuristic (h_{lsh}^{pho}).
- Improved Local Search Heuristic (h_{ilsh}^{pho}).

Both heuristics h^{pho} and h_{LP}^{pho} are calculated using CPLEX 22.1.0 (Cplex, 2009) due to its native compatibility with Fast Downward. Additionally, all the abstractions with a maximum pattern size of two ($sys2$) and four ($sys4$) are chosen to test their impact on heuristic performance and quality.

The heuristic h_{ilsh}^{pho} uses a tie-breaking operation for deciding among operators with the same performance. It chooses the operator with the least squared sum of all the remaining constraint values among those relevant to the operator.

Finally, the heuristics are computed with two additional configurations: one with unitary operator costs and the other with their real (normal) costs. Note that these trans-

formations over the costs are only applied for calculating the heuristic value. The task remains the same with the real costs associated with the operators.

GBFS finds a plan for each of the 275 selected tasks using each heuristic evaluated within time and memory limits.

5.3 Evaluation Metrics

The evaluation metrics considered in our experiments are:

- Number of evaluated states per second.
- Number of expanded states.
- Initial heuristic value.
- Plan length.
- Plan quality, where the quality of a plan π is given by the ratio of the optimal plan cost ($cost(\pi^*)$) to this plan cost ($cost(\pi)$).
- Total execution time.

5.4 Experimental Results and Analysis

The experimental results presented in Tables 5.1, 5.2, 5.3, and 5.4 highlight the performance of the heuristics across different scenarios. Notably, h_{lsh}^{pho} emerges as the fastest in terms of both total execution time and average heuristic computation time, where h^{pho} is the slowest one, followed by h_{LP}^{pho} and h_{ilsh}^{pho}. Although h_{ilsh}^{pho} is the second fastest heuristic, it contradicts the expectations created considering that the algorithm, as inferred by the closer initial heuristic values to h^{pho} than h_{lsh}^{pho}, would be as fast as Doebber's solution.

In terms of quality of the solution, h_{ilsh}^{pho} consistently exhibits superior performance, except in $sys2$ with real costs (Table 5.1), where h_{LP}^{pho}, followed by h_{lsh}^{pho}, performed considerably better. Surprisingly, it produces better plan quality than h^{pho}.

In order to verify how well each heuristic estimates PhO, we compare the heuristics using scatter plots represented in Figure 5.1, where each axis indicates the initial state heuristic values given by a heuristic for the benchmark tasks. In the figure, each plot has the principal diagonal showing the cases where both heuristics have the same value.

Table 5.1 – General: $sys2$ and real costs

Summary	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
Evaluations per sec (Geometric mean)	*24020.48*	117163.97	46339.83	15335.57	2790.65
Expansions (Geometric mean)	*16.11*	79.55	94.58	77.92	88.26
$h(I)$-value	*504546*	620643	449483	448982	449195
$|\pi|$ (Sum)	*4356*	4890	4862	4828	4890
$\frac{cost(\pi^*)}{cost(\pi)}$ (Sum)	*275*	256.44	255.18	256.92	254.13
Total time (Geometric mean)	*0.31*	0.01	0.03	0.04	0.14

Table 5.2 – General: $sys2$ and unitary costs

Summary	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
Evaluations per sec (Geometric mean)	*18045.86*	68103.35	32352.32	14555.98	2593.76
Expansions (Geometric mean)	*12.19*	42.29	45.96	44.20	44.20
$h(s_0)$-value (Sum)	*4346*	2800	2466	2341	2341
$|\pi|$ (Sum)	*4346*	4871	4805	4817	4817
$\frac{cost(\pi^*)}{cost(\pi)}$ (Sum)	*273.51*	254.52	255.03	254.83	254.83
Total time (Geometric mean)	*0.30*	0.01	0.02	0.03	0.08

Table 5.3 – General: $sys4$ and real costs

Summary	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
Evaluations per sec (Geometric mean)	*24020.48*	34822.39	2998.76	3835.16	345.69
Expansions (Geometric mean)	*16.11*	27.62	28.66	28.34	28.15
$h(s_0)$-value (Sum)	*504546*	773814	503401	502623	502638
$|\pi|$ (Sum)	*4356*	4828	4814	4825	4825
$\frac{cost(\pi^*)}{cost(\pi)}$ (Sum)	*275*	259.02	261.09	259.73	259.79
Total time (Geometric mean)	*0.31*	0.04	0.08	0.08	0.30

Table 5.4 – General: $sys4$ and unitary costs

Summary	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
Evaluations per sec (Geometric mean)	*18045.86*	25117.55	2328.89	3073.94	275.59
Expansions (Geometric mean)	*12.19*	18.21	21.87	21.65	21.65
$h(s_0)$-value (Sum)	*4346*	3649	3098	2907	2908
$|\pi|$ (Sum)	*4346*	4775	4776	4764	4764
$\frac{cost(\pi^*)}{cost(\pi)}$ (Sum)	*273.51*	261.01	261.27	260.88	260.88
Total time (Geometric mean)	*0.30*	0.03	0.07	0.07	0.27

Additionally, we focused on the most critical part of the plot, leaving some outlier points out of the figure. These points represent domains with heuristic values greater than 100. The removal of the outlier points makes it easier to visualize the comparison. The outlier points showed similar patterns.

Note that h_{lsh}^{pho} and h_{ilsh}^{pho} never underestimate h^{pho} since satisfying all the constraints is the condition to stop computing the estimate. However, h_{ilsh}^{pho} has much closer estimates than h_{lsh}^{pho} when compared to h^{pho} solution. h_{LP}^{pho}, differently than h_{lsh}^{pho} and h_{ilsh}^{pho}, never overestimate h^{pho} – which happens because every PhO solution is a solution for its relaxed LP version, which means that an LP solver will always find a solution that is at most as costly than the actual PhO. Regarding the quality of the estimations, h_{LP}^{pho} does it very well, being the best algorithm for estimating h^{pho} between the ones that we tested with these experiments.

Figure 5.1 – Scatter plot of initial heuristic values in logarithmic scale for all the configurations. (the horizontal axis represents the values for the first heuristic, and the vertical axis the second)
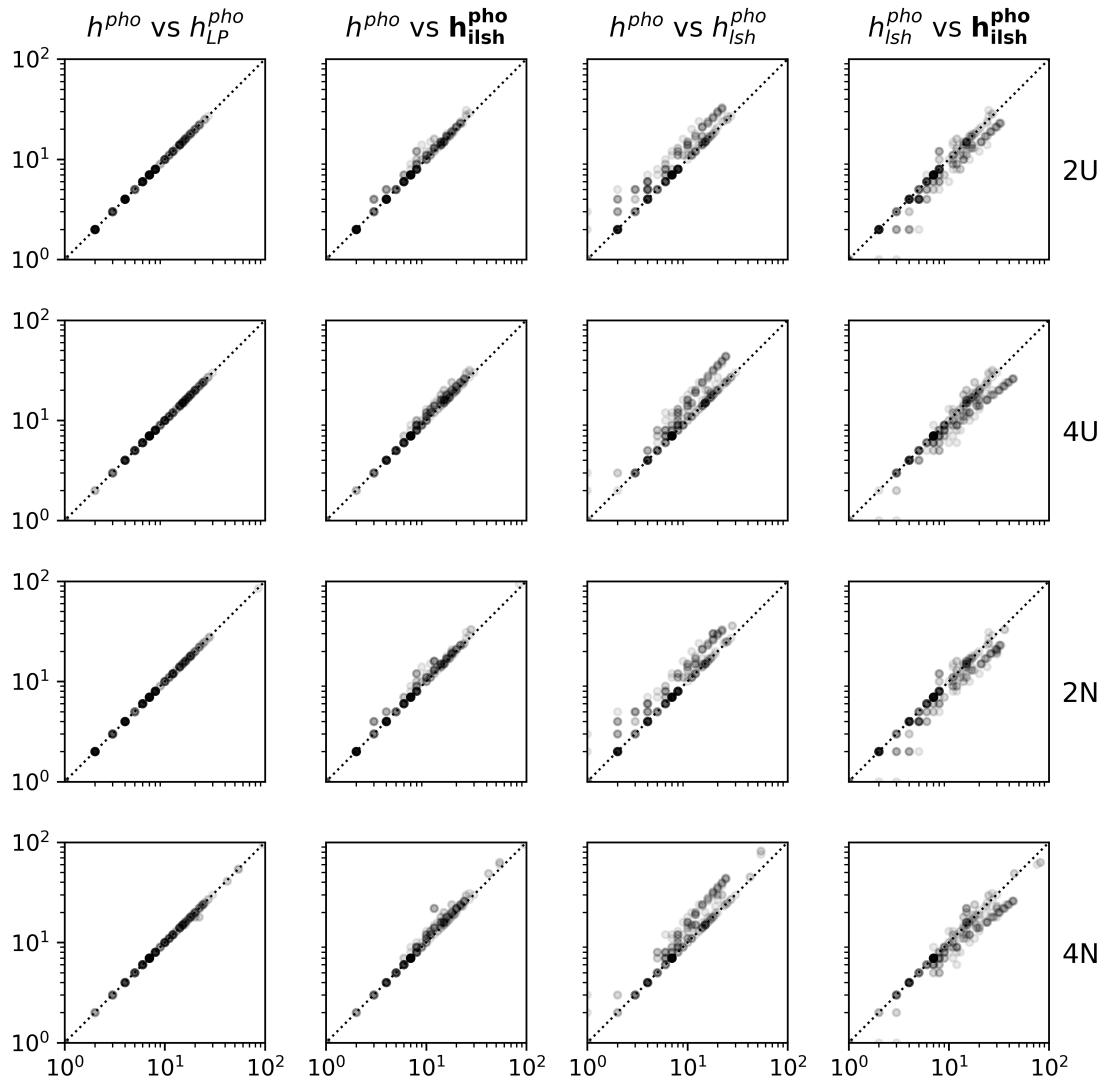
6 DISCUSSION

In this work, we demonstrated a method to compute a heuristic that efficiently estimates PhO with some accuracy. It shows an improvement in estimating PhO when compared to Doebber's heuristic, showing the way that the decision of which operators to increment can considerably affect the quality of the estimates provided by these algorithms. The heuristic we present is an interesting alternative to other PhO estimation heuristics because it provides plans with better quality.

In addition, this work shows that heuristics can perform well even with not-so-accurate PhO estimates. We saw that not even the actual PhO evidences better plans that justify the computation cost. Based on that, exchanging estimate accuracy for time to compute seems to be worth it, especially if we don't care about any of the guarantees that a more accurate heuristic can give to the search.

This study opens avenues for future research, particularly in exploring enhancements on the greedy decision-making process of choosing operators to increment, such as refining the performance calculation. Additionally, experimenting with more complex tasks than the ones selected for this work, where having a faster heuristic computation can show higher importance, may be valuable. Both ideas would help to construct a deeper understanding of the circumstances and scenarios where each heuristic is most effective. Finally, once our heuristic is based on algorithms proven to approximate optimal solutions (the algorithms proposed by Johnson, Lovász, and Chvatal), it should be possible to make approximation proofs for similar heuristics that estimate PhO.

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7 APPENDIX

Evaluations-*blocks*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	14	14	14	14	14
probBLOCKS-4-1.pddl	17	17	20	20	20
probBLOCKS-4-2.pddl	13	15	17	17	17
probBLOCKS-5-0.pddl	23	26	31	31	31
probBLOCKS-5-1.pddl	23	36	60	60	60
probBLOCKS-5-2.pddl	33	62	69	69	69
probBLOCKS-6-0.pddl	26	233	373	375	375
probBLOCKS-6-1.pddl	31	33	33	33	33
probBLOCKS-6-2.pddl	50	82	339	339	339

Evaluations-*blocks*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	14	14	14	14	14
probBLOCKS-4-1.pddl	17	17	20	20	20
probBLOCKS-4-2.pddl	13	13	13	13	13
probBLOCKS-5-0.pddl	23	24	25	28	28
probBLOCKS-5-1.pddl	23	33	58	60	60
probBLOCKS-5-2.pddl	33	70	111	76	76
probBLOCKS-6-0.pddl	26	182	256	323	320
probBLOCKS-6-1.pddl	31	31	31	31	31
probBLOCKS-6-2.pddl	50	66	105	314	314

Evaluations-*blocks*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	14	14	14	14	14
probBLOCKS-4-1.pddl	17	17	20	20	20
probBLOCKS-4-2.pddl	13	15	17	17	17
probBLOCKS-5-0.pddl	23	26	31	31	31
probBLOCKS-5-1.pddl	23	36	60	60	60

	h^*			
probBLOCKS-5-2.pddl	33	62	69	69	69
probBLOCKS-6-0.pddl	26	233	373	375	375
probBLOCKS-6-1.pddl	31	33	33	33	33
probBLOCKS-6-2.pddl	50	82	339	339	339

Evaluations-*blocks*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	14	14	14	14	14
probBLOCKS-4-1.pddl	17	17	20	20	20
probBLOCKS-4-2.pddl	13	13	13	13	13
probBLOCKS-5-0.pddl	23	24	25	28	28
probBLOCKS-5-1.pddl	23	33	58	60	60
probBLOCKS-5-2.pddl	33	70	111	76	76
probBLOCKS-6-0.pddl	26	182	256	323	320
probBLOCKS-6-1.pddl	31	31	31	31	31
probBLOCKS-6-2.pddl	50	66	105	314	314

Evaluations-*depot*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	53	60	60	60	60

Evaluations-*depot*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	53	57	58	58	58

Evaluations-*depot*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	53	60	60	60	60

Evaluations-*depot*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	53	57	58	58	58

Evaluations-*driverlog*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	43	63	63	63	63
p02.pddl	128	373	605	399	399
p03.pddl	74	249	186	249	249
p04.pddl	155	498	500	498	498
p05.pddl	178	3016	1965	3016	3016

Evaluations-*driverlog*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	43	43	43	43	43
p02.pddl	128	134	134	213	213
p03.pddl	74	88	103	88	88
p04.pddl	155	363	173	157	157
p05.pddl	178	238	347	302	302

Evaluations-*driverlog*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	43	63	63	63	63
p02.pddl	128	373	605	399	399
p03.pddl	74	249	186	249	249
p04.pddl	155	498	500	498	498
p05.pddl	178	3016	1965	3016	3016

Evaluations-*driverlog*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	43	43	43	43	43
p02.pddl	128	134	134	213	213
p03.pddl	74	88	103	88	88
p04.pddl	155	363	173	157	157
p05.pddl	178	238	347	302	302

Evaluations-*elevators-opt08-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	489	145927	144315	78754	78754
p11.pddl	851	89852	106937	116547	116547

Evaluations-*elevators-opt08-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	489	1410	580	532	532
p11.pddl	851	3804	1352	926	926

Evaluations-*elevators-opt08-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	220	311	334	334	334
p11.pddl	252	558	605	605	605

Evaluations-*elevators-opt08-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	220	224	242	247	247
p11.pddl	252	281	276	276	276

Evaluations-*elevators-opt11-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	851	89852	106937	116547	116547
p04.pddl	489	145927	144315	78754	78754

Evaluations-*elevators-opt11-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	851	3804	1352	926	926
p04.pddl	489	1410	580	532	532

Evaluations-*elevators-opt11-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	252	558	605	605	605
p04.pddl	220	311	334	334	334

Evaluations-*elevators-opt11-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	252	281	276	276	276
p04.pddl	220	224	242	247	247

Evaluations-*ged-opt14-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	7	7	7	7	7
d-1-4.pddl	7	7	7	7	7
d-2-1.pddl	7	7	7	7	7

Evaluations-*ged-opt14-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	7	7	7	7	7
d-1-4.pddl	7	7	7	7	7
d-2-1.pddl	7	7	7	7	7

Evaluations-*ged-opt14-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	7	7	7	7	7
d-1-4.pddl	7	7	7	7	7
d-2-1.pddl	7	7	7	7	7

Evaluations-*ged-opt14-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	7	7	7	7	7
d-1-4.pddl	7	7	7	7	7

d-2-1.pddl	7	7	7	7	7

Evaluations-*gripper*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	35	66	65	65	65
prob02.pddl	69	183	163	166	166
prob03.pddl	115	400	320	335	335
prob04.pddl	173	749	553	588	588
prob05.pddl	243	1262	878	941	941

Evaluations-*gripper*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	35	55	172	87	87
prob02.pddl	69	142	551	284	284
prob03.pddl	115	313	1146	601	601
prob04.pddl	173	600	1791	1050	1050
prob05.pddl	243	1035	2719	1647	1647

Evaluations-*gripper*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	35	66	65	65	65
prob02.pddl	69	183	163	166	166
prob03.pddl	115	400	320	335	335
prob04.pddl	173	749	553	588	588
prob05.pddl	243	1262	878	941	941

Evaluations-*gripper*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	35	55	172	87	87
prob02.pddl	69	142	551	284	284
prob03.pddl	115	313	1146	601	601
prob04.pddl	173	600	1791	1050	1050

prob05.pddl	243	1035	2719	1647	1647

Evaluations-*hiking-opt14-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	91	129	255	255	255
ptesting-1-2-4.pddl	212	428	920	920	920
ptesting-1-2-5.pddl	431	992	2529	2529	2529
ptesting-1-2-7.pddl	983	3227	10895	10895	10895
ptesting-1-2-8.pddl	1364	5054	19308	19308	19308
ptesting-2-2-3.pddl	345	3118	5894	5894	5894
ptesting-2-2-4.pddl	597	8781	23101	23101	23101
ptesting-2-2-5.pddl	911	16679	57496	57496	57496
ptesting-2-2-6.pddl	1087	26973	63623	63623	63623
ptesting-2-3-4.pddl	607	16969	28067	28067	28067
ptesting-2-3-5.pddl	1085	33267	71771	71771	71771
ptesting-2-4-3.pddl	581	10978	17128	17128	17128
ptesting-2-4-4.pddl	721	29094	45331	45331	45331

Evaluations-*hiking-opt14-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	91	110	106	106	106
ptesting-1-2-4.pddl	212	353	325	325	325
ptesting-1-2-5.pddl	431	875	804	804	804
ptesting-1-2-7.pddl	983	2888	2674	2674	2674
ptesting-1-2-8.pddl	1364	4583	4269	4269	4269
ptesting-2-2-3.pddl	345	629	1680	1680	1680
ptesting-2-2-4.pddl	597	1667	3725	3347	3347
ptesting-2-2-5.pddl	911	3048	6481	6593	6593
ptesting-2-2-6.pddl	1087	4791	10889	10889	10889
ptesting-2-3-4.pddl	607	2338	4209	4747	4747
ptesting-2-3-5.pddl	1085	5230	21067	14028	14028
ptesting-2-4-3.pddl	581	1226	7586	4324	4324
ptesting-2-4-4.pddl	721	3056	6545	7357	7357

Evaluations-*hiking-opt14-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	91	129	255	255	255
ptesting-1-2-4.pddl	212	428	920	920	920
ptesting-1-2-5.pddl	431	992	2529	2529	2529
ptesting-1-2-7.pddl	983	3227	10895	10895	10895
ptesting-1-2-8.pddl	1364	5054	19308	19308	19308
ptesting-2-2-3.pddl	345	3118	5894	5894	5894
ptesting-2-2-4.pddl	597	8781	23101	23101	23101
ptesting-2-2-5.pddl	911	16679	57496	57496	57496
ptesting-2-2-6.pddl	1087	26973	63623	63623	63623
ptesting-2-3-4.pddl	607	16969	28067	28067	28067
ptesting-2-3-5.pddl	1085	33267	71771	71771	71771
ptesting-2-4-3.pddl	581	10978	17128	17128	17128
ptesting-2-4-4.pddl	721	29094	45331	45331	45331

Evaluations-*hiking-opt14-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	91	110	106	106	106
ptesting-1-2-4.pddl	212	353	325	325	325
ptesting-1-2-5.pddl	431	875	804	804	804
ptesting-1-2-7.pddl	983	2888	2674	2674	2674
ptesting-1-2-8.pddl	1364	4583	4269	4269	4269
ptesting-2-2-3.pddl	345	629	1680	1680	1680
ptesting-2-2-4.pddl	597	1667	3725	3347	3347
ptesting-2-2-5.pddl	911	3048	6481	6593	6593
ptesting-2-2-6.pddl	1087	4791	10889	10889	10889
ptesting-2-3-4.pddl	607	2338	4209	4747	4747
ptesting-2-3-5.pddl	1085	5230	21067	14028	14028
ptesting-2-4-3.pddl	581	1226	7586	4324	4324
ptesting-2-4-4.pddl	721	3056	6545	7357	7357

Evaluations-*logistics00*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	140	140	129	129	129
probLOGISTICS-4-1.pddl	130	130	130	130	130
probLOGISTICS-4-2.pddl	72	72	62	62	62
probLOGISTICS-5-0.pddl	198	198	236	189	189
probLOGISTICS-5-1.pddl	118	118	122	122	122
probLOGISTICS-5-2.pddl	56	56	56	56	56
probLOGISTICS-6-0.pddl	184	184	188	184	184
probLOGISTICS-6-1.pddl	88	88	92	92	92
probLOGISTICS-6-2.pddl	209	209	196	209	209
probLOGISTICS-6-9.pddl	171	171	176	176	176

Evaluations-*logistics00*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	140	140	138	140	140
probLOGISTICS-4-1.pddl	130	130	130	130	130
probLOGISTICS-4-2.pddl	72	72	72	72	72
probLOGISTICS-5-0.pddl	198	198	203	198	198
probLOGISTICS-5-1.pddl	118	118	118	118	118
probLOGISTICS-5-2.pddl	56	56	56	56	56
probLOGISTICS-6-0.pddl	184	184	201	184	184
probLOGISTICS-6-1.pddl	88	88	88	88	88
probLOGISTICS-6-2.pddl	209	209	200	209	209
probLOGISTICS-6-9.pddl	171	171	171	171	171

Evaluations-*logistics00*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	140	140	129	129	129
probLOGISTICS-4-1.pddl	130	130	130	130	130
probLOGISTICS-4-2.pddl	72	72	62	62	62
probLOGISTICS-5-0.pddl	198	198	236	189	189
probLOGISTICS-5-1.pddl	118	118	122	122	122
probLOGISTICS-5-2.pddl	56	56	56	56	56

probLOGISTICS-6-0.pddl	184	184	188	184	184
probLOGISTICS-6-1.pddl	88	88	92	92	92
probLOGISTICS-6-2.pddl	209	209	196	209	209
probLOGISTICS-6-9.pddl	171	171	176	176	176

Evaluations-*logistics00*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	140	140	138	140	140
probLOGISTICS-4-1.pddl	130	130	130	130	130
probLOGISTICS-4-2.pddl	72	72	72	72	72
probLOGISTICS-5-0.pddl	198	198	203	198	198
probLOGISTICS-5-1.pddl	118	118	118	118	118
probLOGISTICS-5-2.pddl	56	56	56	56	56
probLOGISTICS-6-0.pddl	184	184	201	184	184
probLOGISTICS-6-1.pddl	88	88	88	88	88
probLOGISTICS-6-2.pddl	209	209	200	209	209
probLOGISTICS-6-9.pddl	171	171	171	171	171

Evaluations-*logistics98*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	190	588	588	588	588
prob32.pddl	214	388	388	388	388

Evaluations-*logistics98*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	190	190	190	190	190
prob32.pddl	214	214	231	231	231

Evaluations-*logistics98*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	190	588	588	588	588
prob32.pddl	214	388	388	388	388

Evaluations-*logistics98*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	190	190	190	190	190
prob32.pddl	214	214	231	231	231

Evaluations-*miconic*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	5	5	5	5	5
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	410	612	514	965	965
s10-1.pddl	411	684	670	670	670
s10-2.pddl	409	1139	767	1147	1147
s10-3.pddl	410	857	426	794	794
s10-4.pddl	409	825	429	507	507
s11-0.pddl	491	1151	965	1496	1496
s11-1.pddl	497	1314	742	1355	1355
s11-2.pddl	491	953	960	1319	1319
s11-3.pddl	496	817	549	1196	1196
s11-4.pddl	498	1463	793	1102	1102
s2-0.pddl	18	22	19	19	19
s2-1.pddl	18	22	22	22	22
s2-2.pddl	18	22	22	22	22
s2-3.pddl	18	18	22	22	22
s2-4.pddl	18	22	23	23	23
s3-0.pddl	40	57	60	62	62
s3-1.pddl	39	45	49	50	50
s3-2.pddl	40	40	56	58	58
s3-3.pddl	39	45	48	48	48
s3-4.pddl	38	57	60	60	60
s4-0.pddl	67	85	68	106	106

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s4-1.pddl	67	69	68	104	104
s4-2.pddl	66	85	83	96	96
s4-3.pddl	66	94	107	120	120
s4-4.pddl	66	94	115	120	120
s5-0.pddl	104	129	177	203	203
s5-1.pddl	106	151	199	205	205
s5-2.pddl	108	221	147	200	200
s5-3.pddl	104	198	136	151	151
s5-4.pddl	103	139	181	230	230
s6-0.pddl	153	225	306	334	334
s6-1.pddl	149	180	200	253	253
s6-2.pddl	150	262	210	304	304
s6-3.pddl	151	166	201	312	312
s6-4.pddl	148	261	155	236	236
s7-0.pddl	203	277	367	371	371
s7-1.pddl	201	355	355	456	456
s7-2.pddl	205	435	214	451	451
s7-3.pddl	202	268	296	492	492
s7-4.pddl	199	212	366	495	495
s8-0.pddl	262	356	526	780	780
s8-1.pddl	263	309	398	566	566
s8-2.pddl	264	353	515	633	633
s8-3.pddl	261	342	291	593	593
s8-4.pddl	264	515	390	660	660
s9-0.pddl	331	475	567	942	942
s9-1.pddl	332	1289	440	845	845
s9-2.pddl	333	908	510	803	803
s9-3.pddl	330	348	356	414	414
s9-4.pddl	340	1052	645	743	743

Evaluations-*miconic*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	5	5	5	5	5

s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	410	412	443	803	803
s10-1.pddl	411	412	474	479	479
s10-2.pddl	409	412	418	958	958
s10-3.pddl	410	412	419	659	659
s10-4.pddl	409	416	416	494	494
s11-0.pddl	491	490	539	1275	1275
s11-1.pddl	497	500	512	744	744
s11-2.pddl	491	489	528	951	951
s11-3.pddl	496	495	514	996	996
s11-4.pddl	498	505	540	988	988
s2-0.pddl	18	18	18	18	18
s2-1.pddl	18	18	18	18	18
s2-2.pddl	18	18	18	18	18
s2-3.pddl	18	18	18	18	18
s2-4.pddl	18	18	19	19	19
s3-0.pddl	40	38	40	40	40
s3-1.pddl	39	40	41	43	43
s3-2.pddl	40	37	40	39	39
s3-3.pddl	39	40	41	41	41
s3-4.pddl	38	37	38	41	41
s4-0.pddl	67	67	67	89	89
s4-1.pddl	67	67	67	87	87
s4-2.pddl	66	66	67	79	79
s4-3.pddl	66	67	66	96	96
s4-4.pddl	66	66	68	96	96
s5-0.pddl	104	103	104	162	162
s5-1.pddl	106	106	116	165	165
s5-2.pddl	108	108	108	109	109
s5-3.pddl	104	106	105	121	121
s5-4.pddl	103	104	104	186	186
s6-0.pddl	153	154	172	164	164

s6-1.pddl	149	152	150	207	207
s6-2.pddl	150	148	149	216	216
s6-3.pddl	151	151	151	265	265
s6-4.pddl	148	148	148	200	200
s7-0.pddl	203	201	206	284	284
s7-1.pddl	201	204	209	367	367
s7-2.pddl	205	207	207	287	287
s7-3.pddl	202	208	206	314	314
s7-4.pddl	199	198	201	287	287
s8-0.pddl	262	260	268	547	547
s8-1.pddl	263	264	301	380	380
s8-2.pddl	264	262	302	522	522
s8-3.pddl	261	264	282	474	474
s8-4.pddl	264	265	269	546	546
s9-0.pddl	331	328	340	789	789
s9-1.pddl	332	329	374	627	627
s9-2.pddl	333	333	356	692	692
s9-3.pddl	330	330	343	396	396
s9-4.pddl	340	340	365	489	489

Evaluations-*miconic*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	5	5	5	5	5
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	410	612	514	965	965
s10-1.pddl	411	684	670	670	670
s10-2.pddl	409	1139	767	1147	1147
s10-3.pddl	410	857	426	794	794
s10-4.pddl	409	825	429	507	507
s11-0.pddl	491	1151	965	1496	1496
s11-1.pddl	497	1314	742	1355	1355

s11-2.pddl	491	953	960	1319	1319
s11-3.pddl	496	817	549	1196	1196
s11-4.pddl	498	1463	793	1102	1102
s2-0.pddl	18	22	19	19	19
s2-1.pddl	18	22	22	22	22
s2-2.pddl	18	22	22	22	22
s2-3.pddl	18	18	22	22	22
s2-4.pddl	18	22	23	23	23
s3-0.pddl	40	57	60	62	62
s3-1.pddl	39	45	49	50	50
s3-2.pddl	40	40	56	58	58
s3-3.pddl	39	45	48	48	48
s3-4.pddl	38	57	60	60	60
s4-0.pddl	67	85	68	106	106
s4-1.pddl	67	69	68	104	104
s4-2.pddl	66	85	83	96	96
s4-3.pddl	66	94	107	120	120
s4-4.pddl	66	94	115	120	120
s5-0.pddl	104	129	177	203	203
s5-1.pddl	106	151	199	205	205
s5-2.pddl	108	221	147	200	200
s5-3.pddl	104	198	136	151	151
s5-4.pddl	103	139	181	230	230
s6-0.pddl	153	225	306	334	334
s6-1.pddl	149	180	200	253	253
s6-2.pddl	150	262	210	304	304
s6-3.pddl	151	166	201	312	312
s6-4.pddl	148	261	155	236	236
s7-0.pddl	203	277	367	371	371
s7-1.pddl	201	355	355	456	456
s7-2.pddl	205	435	214	451	451
s7-3.pddl	202	268	296	492	492
s7-4.pddl	199	212	366	495	495
s8-0.pddl	262	356	526	780	780

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s8-1.pddl	263	309	398	566	566
s8-2.pddl	264	353	515	633	633
s8-3.pddl	261	342	291	593	593
s8-4.pddl	264	515	390	660	660
s9-0.pddl	331	475	567	942	942
s9-1.pddl	332	1289	440	845	845
s9-2.pddl	333	908	510	803	803
s9-3.pddl	330	348	356	414	414
s9-4.pddl	340	1052	645	743	743

Evaluations-*miconic*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	5	5	5	5	5
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	410	412	443	803	803
s10-1.pddl	411	412	474	479	479
s10-2.pddl	409	412	418	958	958
s10-3.pddl	410	412	419	659	659
s10-4.pddl	409	416	416	494	494
s11-0.pddl	491	490	539	1275	1275
s11-1.pddl	497	500	512	744	744
s11-2.pddl	491	489	528	951	951
s11-3.pddl	496	495	514	996	996
s11-4.pddl	498	505	540	988	988
s2-0.pddl	18	18	18	18	18
s2-1.pddl	18	18	18	18	18
s2-2.pddl	18	18	18	18	18
s2-3.pddl	18	18	18	18	18
s2-4.pddl	18	18	19	19	19
s3-0.pddl	40	38	40	40	40
s3-1.pddl	39	40	41	43	43

s3-2.pddl	40	37	40	39	39
s3-3.pddl	39	40	41	41	41
s3-4.pddl	38	37	38	41	41
s4-0.pddl	67	67	67	89	89
s4-1.pddl	67	67	67	87	87
s4-2.pddl	66	66	67	79	79
s4-3.pddl	66	67	66	96	96
s4-4.pddl	66	66	68	96	96
s5-0.pddl	104	103	104	162	162
s5-1.pddl	106	106	116	165	165
s5-2.pddl	108	108	108	109	109
s5-3.pddl	104	106	105	121	121
s5-4.pddl	103	104	104	186	186
s6-0.pddl	153	154	172	164	164
s6-1.pddl	149	152	150	207	207
s6-2.pddl	150	148	149	216	216
s6-3.pddl	151	151	151	265	265
s6-4.pddl	148	148	148	200	200
s7-0.pddl	203	201	206	284	284
s7-1.pddl	201	204	209	367	367
s7-2.pddl	205	207	207	287	287
s7-3.pddl	202	208	206	314	314
s7-4.pddl	199	198	201	287	287
s8-0.pddl	262	260	268	547	547
s8-1.pddl	263	264	301	380	380
s8-2.pddl	264	262	302	522	522
s8-3.pddl	261	264	282	474	474
s8-4.pddl	264	265	269	546	546
s9-0.pddl	331	328	340	789	789
s9-1.pddl	332	329	374	627	627
s9-2.pddl	333	333	356	692	692
s9-3.pddl	330	330	343	396	396
s9-4.pddl	340	340	365	489	489

Evaluations-*movie*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	29	29	29	29	29
prob02.pddl	29	29	29	29	29
prob03.pddl	29	29	29	29	29
prob04.pddl	29	29	29	29	29
prob05.pddl	29	29	29	29	29
prob06.pddl	29	29	29	29	29
prob07.pddl	29	29	29	29	29
prob08.pddl	29	29	29	29	29
prob09.pddl	29	29	29	29	29
prob10.pddl	29	29	29	29	29
prob11.pddl	29	29	29	29	29
prob12.pddl	29	29	29	29	29
prob13.pddl	29	29	29	29	29
prob14.pddl	29	29	29	29	29
prob15.pddl	29	29	29	29	29
prob16.pddl	29	29	29	29	29
prob17.pddl	29	29	29	29	29
prob18.pddl	29	29	29	29	29
prob19.pddl	29	29	29	29	29
prob20.pddl	29	29	29	29	29
prob21.pddl	29	29	29	29	29
prob22.pddl	29	29	29	29	29
prob23.pddl	29	29	29	29	29
prob24.pddl	29	29	29	29	29
prob25.pddl	29	29	29	29	29
prob26.pddl	29	29	29	29	29
prob27.pddl	29	29	29	29	29
prob28.pddl	29	29	29	29	29
prob29.pddl	29	29	29	29	29
prob30.pddl	29	29	29	29	29

Evaluations-*movie*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	29	29	29	29	29
prob02.pddl	29	29	29	29	29
prob03.pddl	29	29	29	29	29
prob04.pddl	29	29	29	29	29
prob05.pddl	29	29	29	29	29
prob06.pddl	29	29	29	29	29
prob07.pddl	29	29	29	29	29
prob08.pddl	29	29	29	29	29
prob09.pddl	29	29	29	29	29
prob10.pddl	29	29	29	29	29
prob11.pddl	29	29	29	29	29
prob12.pddl	29	29	29	29	29
prob13.pddl	29	29	29	29	29
prob14.pddl	29	29	29	29	29
prob15.pddl	29	29	29	29	29
prob16.pddl	29	29	29	29	29
prob17.pddl	29	29	29	29	29
prob18.pddl	29	29	29	29	29
prob19.pddl	29	29	29	29	29
prob20.pddl	29	29	29	29	29
prob21.pddl	29	29	29	29	29
prob22.pddl	29	29	29	29	29
prob23.pddl	29	29	29	29	29
prob24.pddl	29	29	29	29	29
prob25.pddl	29	29	29	29	29
prob26.pddl	29	29	29	29	29
prob27.pddl	29	29	29	29	29
prob28.pddl	29	29	29	29	29
prob29.pddl	29	29	29	29	29
prob30.pddl	29	29	29	29	29

Evaluations-*movie*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	29	29	29	29	29
prob02.pddl	29	29	29	29	29
prob03.pddl	29	29	29	29	29
prob04.pddl	29	29	29	29	29
prob05.pddl	29	29	29	29	29
prob06.pddl	29	29	29	29	29
prob07.pddl	29	29	29	29	29
prob08.pddl	29	29	29	29	29
prob09.pddl	29	29	29	29	29
prob10.pddl	29	29	29	29	29
prob11.pddl	29	29	29	29	29
prob12.pddl	29	29	29	29	29
prob13.pddl	29	29	29	29	29
prob14.pddl	29	29	29	29	29
prob15.pddl	29	29	29	29	29
prob16.pddl	29	29	29	29	29
prob17.pddl	29	29	29	29	29
prob18.pddl	29	29	29	29	29
prob19.pddl	29	29	29	29	29
prob20.pddl	29	29	29	29	29
prob21.pddl	29	29	29	29	29
prob22.pddl	29	29	29	29	29
prob23.pddl	29	29	29	29	29
prob24.pddl	29	29	29	29	29
prob25.pddl	29	29	29	29	29
prob26.pddl	29	29	29	29	29
prob27.pddl	29	29	29	29	29
prob28.pddl	29	29	29	29	29
prob29.pddl	29	29	29	29	29
prob30.pddl	29	29	29	29	29

Evaluations-*movie*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	29	29	29	29	29
prob02.pddl	29	29	29	29	29
prob03.pddl	29	29	29	29	29
prob04.pddl	29	29	29	29	29
prob05.pddl	29	29	29	29	29
prob06.pddl	29	29	29	29	29
prob07.pddl	29	29	29	29	29
prob08.pddl	29	29	29	29	29
prob09.pddl	29	29	29	29	29
prob10.pddl	29	29	29	29	29
prob11.pddl	29	29	29	29	29
prob12.pddl	29	29	29	29	29
prob13.pddl	29	29	29	29	29
prob14.pddl	29	29	29	29	29
prob15.pddl	29	29	29	29	29
prob16.pddl	29	29	29	29	29
prob17.pddl	29	29	29	29	29
prob18.pddl	29	29	29	29	29
prob19.pddl	29	29	29	29	29
prob20.pddl	29	29	29	29	29
prob21.pddl	29	29	29	29	29
prob22.pddl	29	29	29	29	29
prob23.pddl	29	29	29	29	29
prob24.pddl	29	29	29	29	29
prob25.pddl	29	29	29	29	29
prob26.pddl	29	29	29	29	29
prob27.pddl	29	29	29	29	29
prob28.pddl	29	29	29	29	29
prob29.pddl	29	29	29	29	29
prob30.pddl	29	29	29	29	29

Evaluations-*mprime*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	53	239	239	239	239

Evaluations-*mprime*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	53	53	53	53	53

Evaluations-*mprime*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	53	239	239	239	239

Evaluations-*mprime*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	53	53	53	53	53

Evaluations-*mystery*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	18	18	18	18	18
prob25.pddl	25	76	76	76	76

Evaluations-*mystery*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	18	18	18	18	18
prob25.pddl	25	25	25	25	25

Evaluations-*mystery*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	18	18	18	18	18
prob25.pddl	25	76	76	76	76

Evaluations-*mystery*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	18	18	18	18	18
prob25.pddl	25	25	25	25	25

Evaluations-*nomystery-opt11-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	78	48	78	78
p02.pddl	53	150	108	150	150
p03.pddl	79	54008	78406	54008	54008
p04.pddl	97	155	157	155	155
p11.pddl	38	192	341	192	192
p12.pddl	61	122	208	122	122
p13.pddl	75	3728	12434	3728	3728
p14.pddl	96	136793	152595	136793	136793

Evaluations-*nomystery-opt11-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	37	41	37	37
p02.pddl	53	53	50	53	53
p03.pddl	79	79	74	79	79
p04.pddl	97	95	91	95	95
p11.pddl	38	38	42	38	38
p12.pddl	61	61	68	61	61
p13.pddl	75	75	70	75	75
p14.pddl	96	96	107	96	96

Evaluations-*nomystery-opt11-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	78	48	78	78
p02.pddl	53	150	108	150	150
p03.pddl	79	54008	78406	54008	54008

	h^*			
p04.pddl	97	155	157	155	155
p11.pddl	38	192	341	192	192
p12.pddl	61	122	208	122	122
p13.pddl	75	3728	12434	3728	3728
p14.pddl	96	136793	152595	136793	136793

Evaluations-*nomystery-opt11-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	37	41	37	37
p02.pddl	53	53	50	53	53
p03.pddl	79	79	74	79	79
p04.pddl	97	95	91	95	95
p11.pddl	38	38	42	38	38
p12.pddl	61	61	68	61	61
p13.pddl	75	75	70	75	75
p14.pddl	96	96	107	96	96

Evaluations-*openstacks-opt08-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2282	3255	3255	3255	3255
p02.pddl	14429	20593	20593	20593	20593
p03.pddl	64402	94145	94145	94145	94145
p04.pddl	203997	320553	320553	320553	320553
p05.pddl	381749	664917	664917	664917	664917

Evaluations-*openstacks-opt08-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2282	3255	3255	3255	3255
p02.pddl	14429	20593	20593	20593	20593
p03.pddl	64402	94145	94145	94145	94145
p04.pddl	203997	320553	320553	320553	320553
p05.pddl	381749	664917	664917	664917	664917

Evaluations-*openstacks-opt08-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	54	52	52	52	52
p02.pddl	62	60	60	60	60
p03.pddl	100	79	69	81	81
p04.pddl	136	99	108	117	117
p05.pddl	163	138	137	142	142

Evaluations-*openstacks-opt08-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	54	52	52	52	52
p02.pddl	62	60	62	62	62
p03.pddl	100	78	81	81	81
p04.pddl	136	100	100	100	100
p05.pddl	163	138	137	138	138

Evaluations-*openstacks-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	90	172	172	172	172
p02.pddl	99	172	172	172	172
p03.pddl	84	175	175	175	175
p04.pddl	84	175	175	175	175
p05.pddl	84	179	179	179	179

Evaluations-*openstacks-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	90	213	186	213	213
p02.pddl	99	224	236	224	224
p03.pddl	84	217	174	217	217
p04.pddl	84	217	174	217	217
p05.pddl	84	217	175	217	217

Evaluations-*openstacks-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	90	172	172	172	172
p02.pddl	99	172	172	172	172
p03.pddl	84	175	175	175	175
p04.pddl	84	175	175	175	175
p05.pddl	84	179	179	179	179

Evaluations-*openstacks-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	90	213	186	213	213
p02.pddl	99	224	236	224	224
p03.pddl	84	217	174	217	217
p04.pddl	84	217	174	217	217
p05.pddl	84	217	175	217	217

Evaluations-*organic-synthesis-opt18-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	3	3	3	3	3
p03.pddl	10	10	10	10	10
p07.pddl	7	7	7	7	7

Evaluations-*organic-synthesis-opt18-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	3	3	3	3	3
p03.pddl	10	10	10	10	10
p07.pddl	7	7	7	7	7

Evaluations-*organic-synthesis-opt18-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p01.pddl	2	2	2	2	2
p02.pddl	3	3	3	3	3
p03.pddl	10	10	10	10	10
p07.pddl	7	7	7	7	7

Evaluations-*organic-synthesis-opt18-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	3	3	3	3	3
p03.pddl	10	10	10	10	10
p07.pddl	7	7	7	7	7

Evaluations-*parcprinter-08-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	16	16	16	16	16
p11.pddl	15	17	17	17	17
p21.pddl	14	14	14	14	14

Evaluations-*parcprinter-08-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	16	16	16	16	16
p11.pddl	15	15	15	15	15
p21.pddl	14	14	14	14	14

Evaluations-*parcprinter-08-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	11	11	11	11
p11.pddl	15	19	19	19	19
p21.pddl	14	14	14	14	14

Evaluations-*parcprinter-08-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

	h^*				
p01.pddl	11	11	11	11	11
p11.pddl	15	15	15	15	15
p21.pddl	14	14	14	14	14

Evaluations-*pegsol-08-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	13	13	13	13
p05.pddl	34	271	271	271	271

Evaluations-*pegsol-08-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	10	10	10	10
p05.pddl	34	133	133	133	133

Evaluations-*pegsol-08-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	10	11	11	11
p05.pddl	29	106	141	133	133

Evaluations-*pegsol-08-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	10	10	10	10
p05.pddl	29	92	78	76	76

Evaluations-*psr-small*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	10	10	11	11	11
p02-s5-n1-l3-f30.pddl	22	33	37	37	37
p03-s7-n1-l3-f70.pddl	19	29	33	33	33
p04-s8-n1-l4-f10.pddl	24	24	41	41	41
p05-s9-n1-l4-f30.pddl	25	37	41	41	41
p06-s10-n1-l4-f50.pddl	10	10	11	11	11

p07-s11-n1-l4-f70.pddl	25	37	41	41	41
p08-s12-n1-l5-f10.pddl	18	18	19	19	19
p09-s13-n1-l5-f30.pddl	14	14	15	15	15
p10-s17-n2-l2-f30.pddl	35	148	150	150	150
p11-s18-n2-l2-f50.pddl	41	91	68	68	68
p12-s21-n2-l3-f30.pddl	32	50	39	39	39
p13-s22-n2-l3-f50.pddl	33	36	53	53	53
p14-s23-n2-l3-f70.pddl	16	17	17	17	17
p15-s24-n2-l4-f10.pddl	45	7503	17153	17153	17153
p16-s29-n2-l5-f30.pddl	78	1727	1732	1732	1732
p17-s30-n2-l5-f50.pddl	14	15	15	15	15
p18-s31-n2-l5-f70.pddl	30	45	47	47	47
p19-s33-n3-l2-f30.pddl	98	1873	8613	8613	8613
p20-s34-n3-l2-f50.pddl	35	55	44	44	44
p21-s35-n3-l2-f70.pddl	20	23	22	22	22
p22-s37-n3-l3-f30.pddl	156	1105	388	388	388
p23-s38-n3-l3-f50.pddl	31	34	50	50	50
p24-s39-n3-l3-f70.pddl	20	23	22	22	22
p26-s41-n3-l4-f30.pddl	39	61	48	48	48
p27-s42-n3-l4-f50.pddl	57	102	141	141	141
p28-s43-n3-l4-f70.pddl	33	39	72	72	72
p29-s45-n3-l5-f30.pddl	131	1316	667	667	667
p30-s46-n3-l5-f50.pddl	70	170	175	175	175
p32-s50-n4-l2-f50.pddl	75	284	200	200	200
p33-s51-n4-l2-f70.pddl	74	881	886	886	886
p34-s55-n4-l3-f70.pddl	57	133	95	95	95
p38-s78-n3-l3-f50.pddl	41	56	59	59	59
p39-s79-n3-l3-f70.pddl	73	150	273	273	273
p41-s81-n3-l4-f30.pddl	23	25	24	24	24
p42-s82-n3-l4-f50.pddl	96	1878	1879	1879	1879
p43-s83-n3-l4-f70.pddl	58	91	167	167	167
p44-s89-n4-l2-f30.pddl	81	247	249	249	249
p45-s94-n4-l3-f50.pddl	54	97	79	79	79
p47-s98-n5-l2-f50.pddl	93	227	194	194	194

p50-s107-n6-l2-f70.pddl	84	198	153	163	163

Evaluations-*psr-small*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	10	10	10	10	10
p02-s5-n1-l3-f30.pddl	22	33	33	33	33
p03-s7-n1-l3-f70.pddl	19	29	29	29	29
p04-s8-n1-l4-f10.pddl	24	24	24	24	24
p05-s9-n1-l4-f30.pddl	25	37	37	37	37
p06-s10-n1-l4-f50.pddl	10	10	10	10	10
p07-s11-n1-l4-f70.pddl	25	37	37	37	37
p08-s12-n1-l5-f10.pddl	18	18	18	18	18
p09-s13-n1-l5-f30.pddl	14	14	14	14	14
p10-s17-n2-l2-f30.pddl	35	52	52	52	52
p11-s18-n2-l2-f50.pddl	41	58	103	103	103
p12-s21-n2-l3-f30.pddl	32	54	70	70	70
p13-s22-n2-l3-f50.pddl	33	59	59	59	59
p14-s23-n2-l3-f70.pddl	16	17	17	17	17
p15-s24-n2-l4-f10.pddl	45	210	1008	1312	1312
p16-s29-n2-l5-f30.pddl	78	552	1254	1536	1536
p17-s30-n2-l5-f50.pddl	14	15	15	15	15
p18-s31-n2-l5-f70.pddl	30	45	45	45	45
p19-s33-n3-l2-f30.pddl	98	536	2310	2482	2482
p20-s34-n3-l2-f50.pddl	35	47	59	59	59
p21-s35-n3-l2-f70.pddl	20	25	25	25	25
p22-s37-n3-l3-f30.pddl	156	895	1792	2049	2049
p23-s38-n3-l3-f50.pddl	31	41	41	41	41
p24-s39-n3-l3-f70.pddl	20	25	25	25	25
p26-s41-n3-l4-f30.pddl	39	73	85	85	85
p27-s42-n3-l4-f50.pddl	57	85	134	134	134
p28-s43-n3-l4-f70.pddl	33	42	42	42	42
p29-s45-n3-l5-f30.pddl	131	5779	646	5078	5078
p30-s46-n3-l5-f50.pddl	70	114	260	260	260
p32-s50-n4-l2-f50.pddl	75	228	315	315	315

p33-s51-n4-l2-f70.pddl	74	229	1001	1143	1143
p34-s55-n4-l3-f70.pddl	57	88	134	134	134
p38-s78-n3-l3-f50.pddl	41	58	72	72	72
p39-s79-n3-l3-f70.pddl	73	129	218	218	218
p41-s81-n3-l4-f30.pddl	23	27	27	27	27
p42-s82-n3-l4-f50.pddl	96	1004	1206	1224	1224
p43-s83-n3-l4-f70.pddl	58	165	200	200	200
p44-s89-n4-l2-f30.pddl	81	181	334	334	334
p45-s94-n4-l3-f50.pddl	54	121	117	117	117
p47-s98-n5-l2-f50.pddl	93	270	194	423	423
p50-s107-n6-l2-f70.pddl	84	228	248	248	248

Evaluations-*psr-small*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	10	10	11	11	11
p02-s5-n1-l3-f30.pddl	22	33	37	37	37
p03-s7-n1-l3-f70.pddl	19	29	33	33	33
p04-s8-n1-l4-f10.pddl	24	24	41	41	41
p05-s9-n1-l4-f30.pddl	25	37	41	41	41
p06-s10-n1-l4-f50.pddl	10	10	11	11	11
p07-s11-n1-l4-f70.pddl	25	37	41	41	41
p08-s12-n1-l5-f10.pddl	18	18	19	19	19
p09-s13-n1-l5-f30.pddl	14	14	15	15	15
p10-s17-n2-l2-f30.pddl	35	148	150	150	150
p11-s18-n2-l2-f50.pddl	41	91	68	68	68
p12-s21-n2-l3-f30.pddl	32	50	39	39	39
p13-s22-n2-l3-f50.pddl	33	36	53	53	53
p14-s23-n2-l3-f70.pddl	16	17	17	17	17
p15-s24-n2-l4-f10.pddl	45	7503	17153	17153	17153
p16-s29-n2-l5-f30.pddl	78	1727	1732	1732	1732
p17-s30-n2-l5-f50.pddl	14	15	15	15	15
p18-s31-n2-l5-f70.pddl	30	45	47	47	47
p19-s33-n3-l2-f30.pddl	98	1873	8613	8613	8613
p20-s34-n3-l2-f50.pddl	35	55	44	44	44

p21-s35-n3-l2-f70.pddl	20	23	22	22	22
p22-s37-n3-l3-f30.pddl	156	1105	388	388	388
p23-s38-n3-l3-f50.pddl	31	34	50	50	50
p24-s39-n3-l3-f70.pddl	20	23	22	22	22
p26-s41-n3-l4-f30.pddl	39	61	48	48	48
p27-s42-n3-l4-f50.pddl	57	102	141	141	141
p28-s43-n3-l4-f70.pddl	33	39	72	72	72
p29-s45-n3-l5-f30.pddl	131	1316	667	667	667
p30-s46-n3-l5-f50.pddl	70	170	175	175	175
p32-s50-n4-l2-f50.pddl	75	284	200	200	200
p33-s51-n4-l2-f70.pddl	74	881	886	886	886
p34-s55-n4-l3-f70.pddl	57	133	95	95	95
p38-s78-n3-l3-f50.pddl	41	56	59	59	59
p39-s79-n3-l3-f70.pddl	73	150	273	273	273
p41-s81-n3-l4-f30.pddl	23	25	24	24	24
p42-s82-n3-l4-f50.pddl	96	1878	1879	1879	1879
p43-s83-n3-l4-f70.pddl	58	91	167	167	167
p44-s89-n4-l2-f30.pddl	81	247	249	249	249
p45-s94-n4-l3-f50.pddl	54	97	79	79	79
p47-s98-n5-l2-f50.pddl	93	227	194	194	194
p50-s107-n6-l2-f70.pddl	84	198	153	163	163

Evaluations-*psr-small*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	10	10	10	10	10
p02-s5-n1-l3-f30.pddl	22	33	33	33	33
p03-s7-n1-l3-f70.pddl	19	29	29	29	29
p04-s8-n1-l4-f10.pddl	24	24	24	24	24
p05-s9-n1-l4-f30.pddl	25	37	37	37	37
p06-s10-n1-l4-f50.pddl	10	10	10	10	10
p07-s11-n1-l4-f70.pddl	25	37	37	37	37
p08-s12-n1-l5-f10.pddl	18	18	18	18	18
p09-s13-n1-l5-f30.pddl	14	14	14	14	14
p10-s17-n2-l2-f30.pddl	35	52	52	52	52

p11-s18-n2-l2-f50.pddl	41	58	103	103	103
p12-s21-n2-l3-f30.pddl	32	54	70	70	70
p13-s22-n2-l3-f50.pddl	33	59	59	59	59
p14-s23-n2-l3-f70.pddl	16	17	17	17	17
p15-s24-n2-l4-f10.pddl	45	210	1008	1312	1312
p16-s29-n2-l5-f30.pddl	78	552	1254	1536	1536
p17-s30-n2-l5-f50.pddl	14	15	15	15	15
p18-s31-n2-l5-f70.pddl	30	45	45	45	45
p19-s33-n3-l2-f30.pddl	98	536	2310	2482	2482
p20-s34-n3-l2-f50.pddl	35	47	59	59	59
p21-s35-n3-l2-f70.pddl	20	25	25	25	25
p22-s37-n3-l3-f30.pddl	156	895	1792	2049	2049
p23-s38-n3-l3-f50.pddl	31	41	41	41	41
p24-s39-n3-l3-f70.pddl	20	25	25	25	25
p26-s41-n3-l4-f30.pddl	39	73	85	85	85
p27-s42-n3-l4-f50.pddl	57	85	134	134	134
p28-s43-n3-l4-f70.pddl	33	42	42	42	42
p29-s45-n3-l5-f30.pddl	131	5779	646	5078	5078
p30-s46-n3-l5-f50.pddl	70	114	260	260	260
p32-s50-n4-l2-f50.pddl	75	228	315	315	315
p33-s51-n4-l2-f70.pddl	74	229	1001	1143	1143
p34-s55-n4-l3-f70.pddl	57	88	134	134	134
p38-s78-n3-l3-f50.pddl	41	58	72	72	72
p39-s79-n3-l3-f70.pddl	73	129	218	218	218
p41-s81-n3-l4-f30.pddl	23	27	27	27	27
p42-s82-n3-l4-f50.pddl	96	1004	1206	1224	1224
p43-s83-n3-l4-f70.pddl	58	165	200	200	200
p44-s89-n4-l2-f30.pddl	81	181	334	334	334
p45-s94-n4-l3-f50.pddl	54	121	117	117	117
p47-s98-n5-l2-f50.pddl	93	270	194	423	423
p50-s107-n6-l2-f70.pddl	84	228	248	248	248

Evaluations-*rovers*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	44	59	59	59	59
p02.pddl	48	48	48	48	48
p03.pddl	68	185	185	185	185
p04.pddl	50	56	56	56	56
p05.pddl	210	637	637	637	637

Evaluations-*rovers*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	44	49	51	112	112
p02.pddl	48	52	52	52	52
p03.pddl	68	65	66	66	66
p04.pddl	50	50	50	50	50
p05.pddl	210	252	224	252	252

Evaluations-*rovers*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	44	59	59	59	59
p02.pddl	48	48	48	48	48
p03.pddl	68	185	185	185	185
p04.pddl	50	56	56	56	56
p05.pddl	210	637	637	637	637

Evaluations-*rovers*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	44	49	51	112	112
p02.pddl	48	52	52	52	52
p03.pddl	68	65	66	66	66
p04.pddl	50	50	50	50	50
p05.pddl	210	252	224	252	252

Evaluations-*satellite*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	42	42	47	47	47
p02-pfile2.pddl	68	75	128	85	85
p03-pfile3.pddl	175	793	793	793	793
p04-pfile4.pddl	276	3091	2258	2236	2236

Evaluations-*satellite*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	42	42	42	42	42
p02-pfile2.pddl	68	68	82	71	71
p03-pfile3.pddl	175	184	628	369	369
p04-pfile4.pddl	276	296	2821	2723	2723

Evaluations-*satellite*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	42	42	47	47	47
p02-pfile2.pddl	68	75	128	85	85
p03-pfile3.pddl	175	793	793	793	793
p04-pfile4.pddl	276	3091	2258	2236	2236

Evaluations-*satellite*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	42	42	42	42	42
p02-pfile2.pddl	68	68	82	71	71
p03-pfile3.pddl	175	184	628	369	369
p04-pfile4.pddl	276	296	2821	2723	2723

Evaluations-*scanalyzer-08-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	91	91	91	137	91
p02.pddl	104	247	268	115	152
p03.pddl	124	268	328	401	220

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p22.pddl	10	12	10	10	10
p23.pddl	10	12	10	10	10
p24.pddl	10	12	10	10	10

Evaluations-*scanalyzer-08-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	91	91	91	130	91
p02.pddl	104	247	131	150	113
p03.pddl	124	268	223	183	180
p22.pddl	10	10	10	10	10
p23.pddl	10	10	10	10	10
p24.pddl	10	10	10	10	10

Evaluations-*scanalyzer-08-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	91	91	141	91	91
p02.pddl	106	128	347	333	333
p03.pddl	126	206	508	206	206
p22.pddl	10	12	10	10	10
p23.pddl	10	12	10	10	10
p24.pddl	10	12	10	10	10

Evaluations-*scanalyzer-08-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	91	91	94	91	91
p02.pddl	106	128	208	141	141
p03.pddl	126	206	308	216	216
p22.pddl	10	10	10	10	10
p23.pddl	10	10	10	10	10
p24.pddl	10	10	10	10	10

Evaluations-*scanalyzer-opt11-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	12	10	10	10
p02.pddl	104	247	268	115	152
p03.pddl	124	268	328	401	220

Evaluations-*scanalyzer-opt11-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	10	10	10	10
p02.pddl	104	247	131	150	113
p03.pddl	124	268	223	183	180

Evaluations-*scanalyzer-opt11-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	12	10	10	10
p02.pddl	106	128	347	333	333
p03.pddl	126	206	508	206	206

Evaluations-*scanalyzer-opt11-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	10	10	10	10
p02.pddl	106	128	208	141	141
p03.pddl	126	206	308	216	216

Evaluations-*storage*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	8	8	8	8	8
p03.pddl	10	10	10	10	10
p04.pddl	23	42	42	42	42
p05.pddl	37	57	57	57	57
p06.pddl	30	62	62	62	62
p07.pddl	41	184	184	184	184

Evaluations-*storage*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	8	8	8	8	8
p03.pddl	10	10	10	10	10
p04.pddl	23	40	45	45	45
p05.pddl	37	56	56	56	56
p06.pddl	30	55	55	55	55
p07.pddl	41	234	234	234	234

Evaluations-*storage*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	8	8	8	8	8
p03.pddl	10	10	10	10	10
p04.pddl	23	42	42	42	42
p05.pddl	37	57	57	57	57
p06.pddl	30	62	62	62	62
p07.pddl	41	184	184	184	184

Evaluations-*storage*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	8	8	8	8	8
p03.pddl	10	10	10	10	10
p04.pddl	23	40	45	45	45
p05.pddl	37	56	56	56	56
p06.pddl	30	55	55	55	55
p07.pddl	41	234	234	234	234

Evaluations-*termes-opt18-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p01.pddl	139	9396	8531	8590	8590
p02.pddl	163	7839	6244	6260	6260
p11.pddl	237	13874	13997	13997	13997
p12.pddl	146	674	929	929	929
p17.pddl	332	23325	19156	19078	19078
p18.pddl	268	3123	2793	2793	2793

Evaluations-*termes-opt18-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	139	3002	9840	10439	10439
p02.pddl	163	4566	6561	7132	7132
p11.pddl	237	5251	6338	6909	6909
p12.pddl	146	566	418	430	419
p17.pddl	332	5429	8051	10536	10536
p18.pddl	268	2398	1021	1300	1300

Evaluations-*termes-opt18-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	139	9396	8531	8590	8590
p02.pddl	163	7839	6244	6260	6260
p11.pddl	237	13874	13997	13997	13997
p12.pddl	146	674	929	929	929
p17.pddl	332	23325	19156	19078	19078
p18.pddl	268	3123	2793	2793	2793

Evaluations-*termes-opt18-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	139	3002	9840	10439	10439
p02.pddl	163	4566	6561	7132	7132
p11.pddl	237	5251	6338	6909	6909
p12.pddl	146	566	418	430	419
p17.pddl	332	5429	8051	10536	10536
p18.pddl	268	2398	1021	1300	1300

Evaluations-*tpp*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	16	16	16	18	18
p03.pddl	28	28	28	35	35
p04.pddl	43	43	43	59	59

Evaluations-*tpp*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	16	16	16	16	16
p03.pddl	28	28	28	28	28
p04.pddl	43	43	43	43	43

Evaluations-*tpp*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	16	16	16	18	18
p03.pddl	28	28	28	35	35
p04.pddl	43	43	43	59	59

Evaluations-*tpp*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	16	16	16	16	16
p03.pddl	28	28	28	28	28
p04.pddl	43	43	43	43	43

Evaluations-*transport-opt08-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	19	52	51	51	51
p02.pddl	46	281	1188	209	1188

p03.pddl	117	1658	2159	1026	2159
p11.pddl	39	107	176	88	176
p13.pddl	188	2147	13861	1821	13861
p21.pddl	30	56	52	52	52
p23.pddl	117	2443	2075	1653	2075

Evaluations-*transport-opt08-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19	52	19	19	19
p02.pddl	46	147	80	46	46
p03.pddl	117	383	259	287	287
p11.pddl	39	56	39	39	39
p13.pddl	188	363	310	319	319
p21.pddl	30	30	30	30	30
p23.pddl	117	920	146	137	137

Evaluations-*transport-opt08-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19	36	36	36	36
p02.pddl	46	125	125	125	125
p03.pddl	117	905	2038	905	905
p11.pddl	39	57	57	57	57
p13.pddl	185	2144	2295	2144	2144
p21.pddl	30	43	43	43	43
p23.pddl	104	1063	1159	1063	1063

Evaluations-*transport-opt08-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19	19	19	19	19
p02.pddl	46	108	46	46	46
p03.pddl	117	223	199	223	223
p11.pddl	39	42	39	39	39
p13.pddl	185	216	216	216	216

p21.pddl	30	30	30	30	30
p23.pddl	104	218	127	127	127

Evaluations-*transport-opt11-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	117	2443	2075	1653	2075
p02.pddl	117	1658	2159	1026	2159
p04.pddl	188	2147	13861	1821	13861

Evaluations-*transport-opt11-strips*-Normal-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	117	920	146	137	137
p02.pddl	117	383	259	287	287
p04.pddl	188	363	310	319	319

Evaluations-*transport-opt11-strips*-Unitary-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	104	1063	1159	1063	1063
p02.pddl	117	905	2038	905	905
p04.pddl	185	2144	2295	2144	2144

Evaluations-*transport-opt11-strips*-Unitary-*sys4*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	104	218	127	127	127
p02.pddl	117	223	199	223	223
p04.pddl	185	216	216	216	216

Evaluations-*transport-opt14-strips*-Normal-*sys2*

Evaluations	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	158	2035	18215	1416	18215

Evaluations-*transport-opt14-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	158	237	409	499	499

Evaluations-*transport-opt14-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	159	1034	1162	1034	1034

Evaluations-*transport-opt14-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	159	271	837	837	837

Evaluations-*trucks-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	78	85	85	85	85
p02.pddl	108	1782	1782	1782	1782
p03.pddl	153	2207	2207	616	616

Evaluations-*trucks-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	78	94	72	104	104
p02.pddl	108	176	115	193	193
p03.pddl	153	219	433	470	470

Evaluations-*trucks-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	78	85	85	85	85
p02.pddl	108	1782	1782	1782	1782
p03.pddl	153	2207	2207	616	616

Evaluations-*trucks-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	78	94	72	104	104
p02.pddl	108	176	115	193	193
p03.pddl	153	219	433	470	470

Evaluations-*visitall-opt11-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	7	7	7	7	7
problem02-half.pddl	3	3	3	3	3
problem03-full.pddl	23	23	23	23	23
problem03-half.pddl	16	40	40	40	40
problem04-full.pddl	47	47	47	47	47
problem04-half.pddl	28	244	244	244	244
problem05-half.pddl	55	296	296	296	296
problem06-half.pddl	66	8212	8212	8212	8212

Evaluations-*visitall-opt11-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	7	7	7	7	7
problem02-half.pddl	3	3	3	3	3
problem03-full.pddl	23	23	23	23	23
problem03-half.pddl	16	16	16	16	16
problem04-full.pddl	47	47	47	47	47
problem04-half.pddl	28	33	33	33	33
problem05-half.pddl	55	56	56	56	56
problem06-half.pddl	66	75	75	75	75

Evaluations-*visitall-opt11-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	7	7	7	7	7
problem02-half.pddl	3	3	3	3	3
problem03-full.pddl	23	23	23	23	23

	h^*			
problem03-half.pddl	16	40	40	40	40
problem04-full.pddl	47	47	47	47	47
problem04-half.pddl	28	244	244	244	244
problem05-half.pddl	55	296	296	296	296
problem06-half.pddl	66	8212	8212	8212	8212

Evaluations-*visitall-opt11-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	7	7	7	7	7
problem02-half.pddl	3	3	3	3	3
problem03-full.pddl	23	23	23	23	23
problem03-half.pddl	16	16	16	16	16
problem04-full.pddl	47	47	47	47	47
problem04-half.pddl	28	33	33	33	33
problem05-half.pddl	55	56	56	56	56
problem06-half.pddl	66	75	75	75	75

Evaluations-*visitall-opt14-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	68	81	81	81	81
p-05-6.pddl	79	518	518	518	518

Evaluations-*visitall-opt14-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	68	70	70	70	70
p-05-6.pddl	79	91	91	91	91

Evaluations-*visitall-opt14-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	68	81	81	81	81
p-05-6.pddl	79	518	518	518	518

Evaluations-*visitall-opt14-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	68	70	70	70	70
p-05-6.pddl	79	91	91	91	91

Evaluations-*woodworking-opt08-strips*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	51	46	51	51	51

Evaluations-*woodworking-opt08-strips*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	51	46	46	51	51

Evaluations-*woodworking-opt08-strips*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	46	46	41	46	46

Evaluations-*woodworking-opt08-strips*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	46	46	46	46	46

Evaluations-*zenotravel*-Normal-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	27	23	25	25	25
p03.pddl	90	237	237	237	237
p04.pddl	75	390	390	390	390
p05.pddl	118	407	378	407	407
p06.pddl	225	729	390	729	729
p07.pddl	196	929	428	744	744

Evaluations-*zenotravel*-Normal-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	27	27	27	27	27
p03.pddl	90	90	90	90	90
p04.pddl	75	78	75	75	75
p05.pddl	118	125	446	118	118
p06.pddl	225	197	197	204	204
p07.pddl	196	172	193	179	179

Evaluations-*zenotravel*-Unitary-*sys2*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	27	23	25	25	25
p03.pddl	90	237	237	237	237
p04.pddl	75	390	390	390	390
p05.pddl	118	407	378	407	407
p06.pddl	225	729	390	729	729
p07.pddl	196	929	428	744	744

Evaluations-*zenotravel*-Unitary-*sys4*

Evaluations	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	27	27	27	27	27
p03.pddl	90	90	90	90	90
p04.pddl	75	78	75	75	75
p05.pddl	118	125	446	118	118
p06.pddl	225	197	197	204	204
p07.pddl	196	172	193	179	179

Expansions-*blocks*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	7	7	7	7	7
probBLOCKS-4-1.pddl	11	11	13	13	13
probBLOCKS-4-2.pddl	7	8	9	9	9
probBLOCKS-5-0.pddl	13	16	20	20	20
probBLOCKS-5-1.pddl	11	20	39	39	39
probBLOCKS-5-2.pddl	17	37	49	49	49
probBLOCKS-6-0.pddl	13	133	230	231	231
probBLOCKS-6-1.pddl	11	12	12	12	12
probBLOCKS-6-2.pddl	21	42	217	217	217

Expansions-*blocks*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	7	7	7	7	7
probBLOCKS-4-1.pddl	11	11	13	13	13
probBLOCKS-4-2.pddl	7	7	7	7	7
probBLOCKS-5-0.pddl	13	15	16	18	18
probBLOCKS-5-1.pddl	11	17	38	39	39
probBLOCKS-5-2.pddl	17	39	70	51	51
probBLOCKS-6-0.pddl	13	96	156	197	194
probBLOCKS-6-1.pddl	11	11	11	11	11
probBLOCKS-6-2.pddl	21	31	60	210	210

Expansions-*blocks*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	7	7	7	7	7
probBLOCKS-4-1.pddl	11	11	13	13	13
probBLOCKS-4-2.pddl	7	8	9	9	9
probBLOCKS-5-0.pddl	13	16	20	20	20
probBLOCKS-5-1.pddl	11	20	39	39	39
probBLOCKS-5-2.pddl	17	37	49	49	49
probBLOCKS-6-0.pddl	13	133	230	231	231
probBLOCKS-6-1.pddl	11	12	12	12	12
probBLOCKS-6-2.pddl	21	42	217	217	217

Expansions-*blocks*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	7	7	7	7	7
probBLOCKS-4-1.pddl	11	11	13	13	13
probBLOCKS-4-2.pddl	7	7	7	7	7
probBLOCKS-5-0.pddl	13	15	16	18	18
probBLOCKS-5-1.pddl	11	17	38	39	39
probBLOCKS-5-2.pddl	17	39	70	51	51
probBLOCKS-6-0.pddl	13	96	156	197	194
probBLOCKS-6-1.pddl	11	11	11	11	11
probBLOCKS-6-2.pddl	21	31	60	210	210

Expansions-*depot*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	13	13	13	13

Expansions-*depot*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	12	12	12	12

Expansions-*depot*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	13	13	13	13

Expansions-*depot*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	12	12	12	12

Expansions-*driverlog*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	8	10	10	10	10

p02.pddl	20	103	132	107	107
p03.pddl	13	53	33	53	53
p04.pddl	17	92	88	92	92
p05.pddl	19	591	465	591	591

Expansions-*driverlog*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	8	8	8	8	8
p02.pddl	20	20	22	53	53
p03.pddl	13	15	20	15	15
p04.pddl	17	60	23	19	19
p05.pddl	19	27	42	35	35

Expansions-*driverlog*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	8	10	10	10	10
p02.pddl	20	103	132	107	107
p03.pddl	13	53	33	53	53
p04.pddl	17	92	88	92	92
p05.pddl	19	591	465	591	591

Expansions-*driverlog*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	8	8	8	8	8
p02.pddl	20	20	22	53	53
p03.pddl	13	15	20	15	15
p04.pddl	17	60	23	19	19
p05.pddl	19	27	42	35	35

Expansions-*elevators-opt08-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	52	39233	71732	13839	13839

p11.pddl	66	12369	15329	17129	17129

Expansions-*elevators-opt08-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	52	158	61	56	56
p11.pddl	66	388	109	73	73

Expansions-*elevators-opt08-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	19	33	34	34	34
p11.pddl	18	99	83	83	83

Expansions-*elevators-opt08-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	19	20	21	22	22
p11.pddl	18	20	20	20	20

Expansions-*elevators-opt11-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	66	12369	15329	17129	17129
p04.pddl	52	39233	71732	13839	13839

Expansions-*elevators-opt11-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	66	388	109	73	73
p04.pddl	52	158	61	56	56

Expansions-*elevators-opt11-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	18	99	83	83	83
p04.pddl	19	33	34	34	34

Expansions-*elevators-opt11-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	18	20	20	20	20
p04.pddl	19	20	21	22	22

Expansions-*ged-opt14-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	2	2	2	2	2
d-1-4.pddl	2	2	2	2	2
d-2-1.pddl	2	2	2	2	2

Expansions-*ged-opt14-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	2	2	2	2	2
d-1-4.pddl	2	2	2	2	2
d-2-1.pddl	2	2	2	2	2

Expansions-*ged-opt14-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	2	2	2	2	2
d-1-4.pddl	2	2	2	2	2
d-2-1.pddl	2	2	2	2	2

Expansions-*ged-opt14-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	2	2	2	2	2
d-1-4.pddl	2	2	2	2	2
d-2-1.pddl	2	2	2	2	2

Expansions-*gripper*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

prob01.pddl	12	28	26	26	26
prob02.pddl	18	70	47	50	50
prob03.pddl	24	152	75	82	82
prob04.pddl	30	290	111	122	122
prob05.pddl	36	500	155	170	170

Expansions-*gripper*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	12	23	113	40	40
prob02.pddl	18	51	222	112	112
prob03.pddl	24	111	368	224	224
prob04.pddl	30	219	381	376	376
prob05.pddl	36	391	480	568	568

Expansions-*gripper*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	12	28	26	26	26
prob02.pddl	18	70	47	50	50
prob03.pddl	24	152	75	82	82
prob04.pddl	30	290	111	122	122
prob05.pddl	36	500	155	170	170

Expansions-*gripper*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	12	23	113	40	40
prob02.pddl	18	51	222	112	112
prob03.pddl	24	111	368	224	224
prob04.pddl	30	219	381	376	376
prob05.pddl	36	391	480	568	568

Expansions-*hiking-opt14-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	12	44	111	111	111
ptesting-1-2-4.pddl	18	152	355	355	355
ptesting-1-2-5.pddl	26	350	846	846	846
ptesting-1-2-7.pddl	39	1100	2920	2920	2920
ptesting-1-2-8.pddl	46	1694	4685	4685	4685
ptesting-2-2-3.pddl	11	337	978	978	978
ptesting-2-2-4.pddl	17	782	2951	2951	2951
ptesting-2-2-5.pddl	23	1223	6109	6109	6109
ptesting-2-2-6.pddl	31	1700	5996	5996	5996
ptesting-2-3-4.pddl	18	1019	2600	2600	2600
ptesting-2-3-5.pddl	25	1638	5539	5539	5539
ptesting-2-4-3.pddl	11	597	1706	1706	1706
ptesting-2-4-4.pddl	18	1314	3367	3367	3367

Expansions-*hiking-opt14-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	12	27	17	17	17
ptesting-1-2-4.pddl	18	113	93	93	93
ptesting-1-2-5.pddl	26	283	257	257	257
ptesting-1-2-7.pddl	39	950	948	948	948
ptesting-1-2-8.pddl	46	1491	1531	1531	1531
ptesting-2-2-3.pddl	11	41	153	153	153
ptesting-2-2-4.pddl	17	70	242	234	234
ptesting-2-2-5.pddl	23	129	328	334	334
ptesting-2-2-6.pddl	31	281	455	455	455
ptesting-2-3-4.pddl	18	141	229	462	462
ptesting-2-3-5.pddl	25	263	1813	865	865
ptesting-2-4-3.pddl	11	57	789	234	234
ptesting-2-4-4.pddl	18	173	284	561	561

Expansions-*hiking-opt14-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	12	44	111	111	111

	h^*			
ptesting-1-2-4.pddl	18	152	355	355	355
ptesting-1-2-5.pddl	26	350	846	846	846
ptesting-1-2-7.pddl	39	1100	2920	2920	2920
ptesting-1-2-8.pddl	46	1694	4685	4685	4685
ptesting-2-2-3.pddl	11	337	978	978	978
ptesting-2-2-4.pddl	17	782	2951	2951	2951
ptesting-2-2-5.pddl	23	1223	6109	6109	6109
ptesting-2-2-6.pddl	31	1700	5996	5996	5996
ptesting-2-3-4.pddl	18	1019	2600	2600	2600
ptesting-2-3-5.pddl	25	1638	5539	5539	5539
ptesting-2-4-3.pddl	11	597	1706	1706	1706
ptesting-2-4-4.pddl	18	1314	3367	3367	3367

Expansions-*hiking-opt14-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	12	27	17	17	17
ptesting-1-2-4.pddl	18	113	93	93	93
ptesting-1-2-5.pddl	26	283	257	257	257
ptesting-1-2-7.pddl	39	950	948	948	948
ptesting-1-2-8.pddl	46	1491	1531	1531	1531
ptesting-2-2-3.pddl	11	41	153	153	153
ptesting-2-2-4.pddl	17	70	242	234	234
ptesting-2-2-5.pddl	23	129	328	334	334
ptesting-2-2-6.pddl	31	281	455	455	455
ptesting-2-3-4.pddl	18	141	229	462	462
ptesting-2-3-5.pddl	25	263	1813	865	865
ptesting-2-4-3.pddl	11	57	789	234	234
ptesting-2-4-4.pddl	18	173	284	561	561

Expansions-*logistics00*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	21	21	21	21	21
probLOGISTICS-4-1.pddl	20	20	20	20	20

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-2.pddl	16	16	17	17	17
probLOGISTICS-5-0.pddl	28	28	34	29	29
probLOGISTICS-5-1.pddl	18	18	19	19	19
probLOGISTICS-5-2.pddl	9	9	9	9	9
probLOGISTICS-6-0.pddl	26	26	26	26	26
probLOGISTICS-6-1.pddl	15	15	16	16	16
probLOGISTICS-6-2.pddl	26	26	28	26	26
probLOGISTICS-6-9.pddl	25	25	26	26	26

Expansions-*logistics00*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	21	21	21	21	21
probLOGISTICS-4-1.pddl	20	20	20	20	20
probLOGISTICS-4-2.pddl	16	16	16	16	16
probLOGISTICS-5-0.pddl	28	28	30	28	28
probLOGISTICS-5-1.pddl	18	18	18	18	18
probLOGISTICS-5-2.pddl	9	9	9	9	9
probLOGISTICS-6-0.pddl	26	26	29	26	26
probLOGISTICS-6-1.pddl	15	15	15	15	15
probLOGISTICS-6-2.pddl	26	26	26	26	26
probLOGISTICS-6-9.pddl	25	25	25	25	25

Expansions-*logistics00*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	21	21	21	21	21
probLOGISTICS-4-1.pddl	20	20	20	20	20
probLOGISTICS-4-2.pddl	16	16	17	17	17
probLOGISTICS-5-0.pddl	28	28	34	29	29
probLOGISTICS-5-1.pddl	18	18	19	19	19
probLOGISTICS-5-2.pddl	9	9	9	9	9
probLOGISTICS-6-0.pddl	26	26	26	26	26
probLOGISTICS-6-1.pddl	15	15	16	16	16
probLOGISTICS-6-2.pddl	26	26	28	26	26

probLOGISTICS-6-9.pddl	25	25	26	26	26

Expansions-*logistics00*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	21	21	21	21	21
probLOGISTICS-4-1.pddl	20	20	20	20	20
probLOGISTICS-4-2.pddl	16	16	16	16	16
probLOGISTICS-5-0.pddl	28	28	30	28	28
probLOGISTICS-5-1.pddl	18	18	18	18	18
probLOGISTICS-5-2.pddl	9	9	9	9	9
probLOGISTICS-6-0.pddl	26	26	29	26	26
probLOGISTICS-6-1.pddl	15	15	15	15	15
probLOGISTICS-6-2.pddl	26	26	26	26	26
probLOGISTICS-6-9.pddl	25	25	25	25	25

Expansions-*logistics98*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	14	84	84	84	84
prob32.pddl	21	41	41	41	41

Expansions-*logistics98*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	14	14	14	14	14
prob32.pddl	21	21	23	23	23

Expansions-*logistics98*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	14	84	84	84	84
prob32.pddl	21	41	41	41	41

Expansions-*logistics98*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	14	14	14	14	14
prob32.pddl	21	21	23	23	23

Expansions-*miconic*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	4	4	4	4	4
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	34	145	136	189	189
s10-1.pddl	33	176	140	140	140
s10-2.pddl	33	222	146	292	292
s10-3.pddl	35	207	126	218	218
s10-4.pddl	34	180	106	133	133
s11-0.pddl	38	282	194	328	328
s11-1.pddl	35	251	157	280	280
s11-2.pddl	39	274	210	299	299
s11-3.pddl	39	224	176	252	252
s11-4.pddl	36	288	237	267	267
s2-0.pddl	8	13	10	10	10
s2-1.pddl	8	11	11	11	11
s2-2.pddl	8	11	11	11	11
s2-3.pddl	8	12	14	14	14
s2-4.pddl	8	12	14	14	14
s3-0.pddl	11	23	30	33	33
s3-1.pddl	12	20	24	26	26
s3-2.pddl	11	18	24	28	28
s3-3.pddl	11	15	21	21	21
s3-4.pddl	11	19	28	28	28
s4-0.pddl	15	34	21	38	38
s4-1.pddl	14	19	23	31	31
s4-2.pddl	16	37	26	37	37
s4-3.pddl	16	39	39	47	47

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s4-4.pddl	16	42	45	47	47
s5-0.pddl	18	52	53	61	61
s5-1.pddl	18	50	59	70	70
s5-2.pddl	16	53	31	69	69
s5-3.pddl	18	60	38	47	47
s5-4.pddl	19	53	58	81	81
s6-0.pddl	20	55	90	120	120
s6-1.pddl	20	46	39	60	60
s6-2.pddl	21	77	61	107	107
s6-3.pddl	21	50	48	86	86
s6-4.pddl	22	70	44	69	69
s7-0.pddl	24	87	76	88	88
s7-1.pddl	25	108	114	142	142
s7-2.pddl	23	83	58	116	116
s7-3.pddl	23	71	84	119	119
s7-4.pddl	26	82	113	120	120
s8-0.pddl	28	107	137	190	190
s8-1.pddl	28	65	102	147	147
s8-2.pddl	27	94	121	166	166
s8-3.pddl	29	81	88	134	134
s8-4.pddl	28	137	93	153	153
s9-0.pddl	32	141	139	229	229
s9-1.pddl	31	301	110	207	207
s9-2.pddl	31	212	121	188	188
s9-3.pddl	33	104	114	130	130
s9-4.pddl	29	169	104	172	172

Expansions-*miconic*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	4	4	4	4	4
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5

s10-0.pddl	34	37	99	163	163
s10-1.pddl	33	36	86	98	98
s10-2.pddl	33	37	80	246	246
s10-3.pddl	35	37	93	175	175
s10-4.pddl	34	37	72	104	104
s11-0.pddl	38	42	124	298	298
s11-1.pddl	35	40	108	128	128
s11-2.pddl	39	41	131	221	221
s11-3.pddl	39	41	144	224	224
s11-4.pddl	36	40	177	242	242
s2-0.pddl	8	8	8	8	8
s2-1.pddl	8	8	8	8	8
s2-2.pddl	8	8	8	8	8
s2-3.pddl	8	8	8	8	8
s2-4.pddl	8	9	10	10	10
s3-0.pddl	11	13	14	15	15
s3-1.pddl	12	12	14	17	17
s3-2.pddl	11	13	11	14	14
s3-3.pddl	11	11	12	12	12
s3-4.pddl	11	12	12	13	13
s4-0.pddl	15	15	16	31	31
s4-1.pddl	14	14	14	24	24
s4-2.pddl	16	16	17	29	29
s4-3.pddl	16	17	19	38	38
s4-4.pddl	16	17	26	38	38
s5-0.pddl	18	19	22	49	49
s5-1.pddl	18	19	23	58	58
s5-2.pddl	16	17	16	19	19
s5-3.pddl	18	19	23	35	35
s5-4.pddl	19	20	25	60	60
s6-0.pddl	20	22	36	50	50
s6-1.pddl	20	22	26	54	54
s6-2.pddl	21	24	33	73	73
s6-3.pddl	21	21	32	79	79

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s6-4.pddl	22	22	27	60	60
s7-0.pddl	24	26	37	70	70
s7-1.pddl	25	28	65	111	111
s7-2.pddl	23	25	34	55	55
s7-3.pddl	23	25	46	69	69
s7-4.pddl	26	27	53	78	78
s8-0.pddl	28	30	56	132	132
s8-1.pddl	28	30	79	88	88
s8-2.pddl	27	30	64	145	145
s8-3.pddl	29	30	53	98	98
s8-4.pddl	28	30	56	132	132
s9-0.pddl	32	34	85	188	188
s9-1.pddl	31	33	73	129	129
s9-2.pddl	31	34	75	166	166
s9-3.pddl	33	33	80	100	100
s9-4.pddl	29	32	49	84	84

Expansions-*miconic*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	4	4	4	4	4
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	34	145	136	189	189
s10-1.pddl	33	176	140	140	140
s10-2.pddl	33	222	146	292	292
s10-3.pddl	35	207	126	218	218
s10-4.pddl	34	180	106	133	133
s11-0.pddl	38	282	194	328	328
s11-1.pddl	35	251	157	280	280
s11-2.pddl	39	274	210	299	299
s11-3.pddl	39	224	176	252	252
s11-4.pddl	36	288	237	267	267

s2-0.pddl	8	13	10	10	10
s2-1.pddl	8	11	11	11	11
s2-2.pddl	8	11	11	11	11
s2-3.pddl	8	12	14	14	14
s2-4.pddl	8	12	14	14	14
s3-0.pddl	11	23	30	33	33
s3-1.pddl	12	20	24	26	26
s3-2.pddl	11	18	24	28	28
s3-3.pddl	11	15	21	21	21
s3-4.pddl	11	19	28	28	28
s4-0.pddl	15	34	21	38	38
s4-1.pddl	14	19	23	31	31
s4-2.pddl	16	37	26	37	37
s4-3.pddl	16	39	39	47	47
s4-4.pddl	16	42	45	47	47
s5-0.pddl	18	52	53	61	61
s5-1.pddl	18	50	59	70	70
s5-2.pddl	16	53	31	69	69
s5-3.pddl	18	60	38	47	47
s5-4.pddl	19	53	58	81	81
s6-0.pddl	20	55	90	120	120
s6-1.pddl	20	46	39	60	60
s6-2.pddl	21	77	61	107	107
s6-3.pddl	21	50	48	86	86
s6-4.pddl	22	70	44	69	69
s7-0.pddl	24	87	76	88	88
s7-1.pddl	25	108	114	142	142
s7-2.pddl	23	83	58	116	116
s7-3.pddl	23	71	84	119	119
s7-4.pddl	26	82	113	120	120
s8-0.pddl	28	107	137	190	190
s8-1.pddl	28	65	102	147	147
s8-2.pddl	27	94	121	166	166
s8-3.pddl	29	81	88	134	134

s8-4.pddl	28	137	93	153	153
s9-0.pddl	32	141	139	229	229
s9-1.pddl	31	301	110	207	207
s9-2.pddl	31	212	121	188	188
s9-3.pddl	33	104	114	130	130
s9-4.pddl	29	169	104	172	172

Expansions-*miconic*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	5	5	5	5	5
s1-1.pddl	4	4	4	4	4
s1-2.pddl	5	5	5	5	5
s1-3.pddl	5	5	5	5	5
s1-4.pddl	5	5	5	5	5
s10-0.pddl	34	37	99	163	163
s10-1.pddl	33	36	86	98	98
s10-2.pddl	33	37	80	246	246
s10-3.pddl	35	37	93	175	175
s10-4.pddl	34	37	72	104	104
s11-0.pddl	38	42	124	298	298
s11-1.pddl	35	40	108	128	128
s11-2.pddl	39	41	131	221	221
s11-3.pddl	39	41	144	224	224
s11-4.pddl	36	40	177	242	242
s2-0.pddl	8	8	8	8	8
s2-1.pddl	8	8	8	8	8
s2-2.pddl	8	8	8	8	8
s2-3.pddl	8	8	8	8	8
s2-4.pddl	8	9	10	10	10
s3-0.pddl	11	13	14	15	15
s3-1.pddl	12	12	14	17	17
s3-2.pddl	11	13	11	14	14
s3-3.pddl	11	11	12	12	12
s3-4.pddl	11	12	12	13	13

s4-0.pddl	15	15	16	31	31
s4-1.pddl	14	14	14	24	24
s4-2.pddl	16	16	17	29	29
s4-3.pddl	16	17	19	38	38
s4-4.pddl	16	17	26	38	38
s5-0.pddl	18	19	22	49	49
s5-1.pddl	18	19	23	58	58
s5-2.pddl	16	17	16	19	19
s5-3.pddl	18	19	23	35	35
s5-4.pddl	19	20	25	60	60
s6-0.pddl	20	22	36	50	50
s6-1.pddl	20	22	26	54	54
s6-2.pddl	21	24	33	73	73
s6-3.pddl	21	21	32	79	79
s6-4.pddl	22	22	27	60	60
s7-0.pddl	24	26	37	70	70
s7-1.pddl	25	28	65	111	111
s7-2.pddl	23	25	34	55	55
s7-3.pddl	23	25	46	69	69
s7-4.pddl	26	27	53	78	78
s8-0.pddl	28	30	56	132	132
s8-1.pddl	28	30	79	88	88
s8-2.pddl	27	30	64	145	145
s8-3.pddl	29	30	53	98	98
s8-4.pddl	28	30	56	132	132
s9-0.pddl	32	34	85	188	188
s9-1.pddl	31	33	73	129	129
s9-2.pddl	31	34	75	166	166
s9-3.pddl	33	33	80	100	100
s9-4.pddl	29	32	49	84	84

Expansions-*movie*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	8	8	8	8	8

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob02.pddl	8	8	8	8	8
prob03.pddl	8	8	8	8	8
prob04.pddl	8	8	8	8	8
prob05.pddl	8	8	8	8	8
prob06.pddl	8	8	8	8	8
prob07.pddl	8	8	8	8	8
prob08.pddl	8	8	8	8	8
prob09.pddl	8	8	8	8	8
prob10.pddl	8	8	8	8	8
prob11.pddl	8	8	8	8	8
prob12.pddl	8	8	8	8	8
prob13.pddl	8	8	8	8	8
prob14.pddl	8	8	8	8	8
prob15.pddl	8	8	8	8	8
prob16.pddl	8	8	8	8	8
prob17.pddl	8	8	8	8	8
prob18.pddl	8	8	8	8	8
prob19.pddl	8	8	8	8	8
prob20.pddl	8	8	8	8	8
prob21.pddl	8	8	8	8	8
prob22.pddl	8	8	8	8	8
prob23.pddl	8	8	8	8	8
prob24.pddl	8	8	8	8	8
prob25.pddl	8	8	8	8	8
prob26.pddl	8	8	8	8	8
prob27.pddl	8	8	8	8	8
prob28.pddl	8	8	8	8	8
prob29.pddl	8	8	8	8	8
prob30.pddl	8	8	8	8	8

Expansions-*movie*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	8	8	8	8	8
prob02.pddl	8	8	8	8	8

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob03.pddl	8	8	8	8	8
prob04.pddl	8	8	8	8	8
prob05.pddl	8	8	8	8	8
prob06.pddl	8	8	8	8	8
prob07.pddl	8	8	8	8	8
prob08.pddl	8	8	8	8	8
prob09.pddl	8	8	8	8	8
prob10.pddl	8	8	8	8	8
prob11.pddl	8	8	8	8	8
prob12.pddl	8	8	8	8	8
prob13.pddl	8	8	8	8	8
prob14.pddl	8	8	8	8	8
prob15.pddl	8	8	8	8	8
prob16.pddl	8	8	8	8	8
prob17.pddl	8	8	8	8	8
prob18.pddl	8	8	8	8	8
prob19.pddl	8	8	8	8	8
prob20.pddl	8	8	8	8	8
prob21.pddl	8	8	8	8	8
prob22.pddl	8	8	8	8	8
prob23.pddl	8	8	8	8	8
prob24.pddl	8	8	8	8	8
prob25.pddl	8	8	8	8	8
prob26.pddl	8	8	8	8	8
prob27.pddl	8	8	8	8	8
prob28.pddl	8	8	8	8	8
prob29.pddl	8	8	8	8	8
prob30.pddl	8	8	8	8	8

Expansions-*movie*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	8	8	8	8	8
prob02.pddl	8	8	8	8	8
prob03.pddl	8	8	8	8	8

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob04.pddl	8	8	8	8	8
prob05.pddl	8	8	8	8	8
prob06.pddl	8	8	8	8	8
prob07.pddl	8	8	8	8	8
prob08.pddl	8	8	8	8	8
prob09.pddl	8	8	8	8	8
prob10.pddl	8	8	8	8	8
prob11.pddl	8	8	8	8	8
prob12.pddl	8	8	8	8	8
prob13.pddl	8	8	8	8	8
prob14.pddl	8	8	8	8	8
prob15.pddl	8	8	8	8	8
prob16.pddl	8	8	8	8	8
prob17.pddl	8	8	8	8	8
prob18.pddl	8	8	8	8	8
prob19.pddl	8	8	8	8	8
prob20.pddl	8	8	8	8	8
prob21.pddl	8	8	8	8	8
prob22.pddl	8	8	8	8	8
prob23.pddl	8	8	8	8	8
prob24.pddl	8	8	8	8	8
prob25.pddl	8	8	8	8	8
prob26.pddl	8	8	8	8	8
prob27.pddl	8	8	8	8	8
prob28.pddl	8	8	8	8	8
prob29.pddl	8	8	8	8	8
prob30.pddl	8	8	8	8	8

Expansions-*movie*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	8	8	8	8	8
prob02.pddl	8	8	8	8	8
prob03.pddl	8	8	8	8	8
prob04.pddl	8	8	8	8	8

prob05.pddl	8	8	8	8	8
prob06.pddl	8	8	8	8	8
prob07.pddl	8	8	8	8	8
prob08.pddl	8	8	8	8	8
prob09.pddl	8	8	8	8	8
prob10.pddl	8	8	8	8	8
prob11.pddl	8	8	8	8	8
prob12.pddl	8	8	8	8	8
prob13.pddl	8	8	8	8	8
prob14.pddl	8	8	8	8	8
prob15.pddl	8	8	8	8	8
prob16.pddl	8	8	8	8	8
prob17.pddl	8	8	8	8	8
prob18.pddl	8	8	8	8	8
prob19.pddl	8	8	8	8	8
prob20.pddl	8	8	8	8	8
prob21.pddl	8	8	8	8	8
prob22.pddl	8	8	8	8	8
prob23.pddl	8	8	8	8	8
prob24.pddl	8	8	8	8	8
prob25.pddl	8	8	8	8	8
prob26.pddl	8	8	8	8	8
prob27.pddl	8	8	8	8	8
prob28.pddl	8	8	8	8	8
prob29.pddl	8	8	8	8	8
prob30.pddl	8	8	8	8	8

Expansions-*mprime*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	5	34	34	34	34

Expansions-*mprime*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

| prob25.pddl | 5 | 5 | 5 | 5 | 5 |

Expansions-*mprime*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	5	34	34	34	34

Expansions-*mprime*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	5	5	5	5	5

Expansions-*mystery*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	6	6	6	6	6
prob25.pddl	5	18	18	18	18

Expansions-*mystery*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	6	6	6	6	6
prob25.pddl	5	5	5	5	5

Expansions-*mystery*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	6	6	6	6	6
prob25.pddl	5	18	18	18	18

Expansions-*mystery*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	6	6	6	6	6
prob25.pddl	5	5	5	5	5

Expansions-*nomystery-opt11-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	12	36	16	36	36
p02.pddl	15	30	23	30	30
p03.pddl	16	45970	71268	45970	45970
p04.pddl	20	32	28	32	32
p11.pddl	13	138	260	138	138
p12.pddl	15	28	84	28	28
p13.pddl	16	3059	11330	3059	3059
p14.pddl	20	116161	127490	116161	116161

Expansions-*nomystery-opt11-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	12	12	13	12	12
p02.pddl	15	15	15	15	15
p03.pddl	16	16	16	16	16
p04.pddl	20	20	21	20	20
p11.pddl	13	13	14	13	13
p12.pddl	15	15	16	15	15
p13.pddl	16	16	16	16	16
p14.pddl	20	21	21	21	21

Expansions-*nomystery-opt11-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	12	36	16	36	36
p02.pddl	15	30	23	30	30
p03.pddl	16	45970	71268	45970	45970
p04.pddl	20	32	28	32	32
p11.pddl	13	138	260	138	138
p12.pddl	15	28	84	28	28
p13.pddl	16	3059	11330	3059	3059
p14.pddl	20	116161	127490	116161	116161

Expansions-*nomystery-opt11-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	12	12	13	12	12
p02.pddl	15	15	15	15	15
p03.pddl	16	16	16	16	16
p04.pddl	20	20	21	20	20
p11.pddl	13	13	14	13	13
p12.pddl	15	15	16	15	15
p13.pddl	16	16	16	16	16
p14.pddl	20	21	21	21	21

Expansions-*openstacks-opt08-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1692	3101	3101	3101	3101
p02.pddl	11378	19865	19865	19865	19865
p03.pddl	52165	90937	90937	90937	90937
p04.pddl	167175	312813	312813	312813	312813
p05.pddl	310660	649848	649848	649848	649848

Expansions-*openstacks-opt08-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1692	3101	3101	3101	3101
p02.pddl	11378	19865	19865	19865	19865
p03.pddl	52165	90937	90937	90937	90937
p04.pddl	167175	312813	312813	312813	312813
p05.pddl	310660	649848	649848	649848	649848

Expansions-*openstacks-opt08-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	18	22	22	22	22
p02.pddl	21	26	26	26	26
p03.pddl	24	35	25	34	34

p04.pddl	28	42	35	40	40
p05.pddl	32	47	54	50	50

Expansions-*openstacks-opt08-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18	22	22	22	22
p02.pddl	21	25	26	26	26
p03.pddl	24	33	35	35	35
p04.pddl	28	40	40	40	40
p05.pddl	32	47	51	47	47

Expansions-*openstacks-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	24	54	54	54	54
p02.pddl	24	54	54	54	54
p03.pddl	24	57	57	57	57
p04.pddl	24	57	57	57	57
p05.pddl	24	61	61	61	61

Expansions-*openstacks-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	24	60	71	60	60
p02.pddl	24	64	84	64	64
p03.pddl	24	63	66	63	63
p04.pddl	24	63	66	63	63
p05.pddl	24	63	67	63	63

Expansions-*openstacks-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	24	54	54	54	54
p02.pddl	24	54	54	54	54
p03.pddl	24	57	57	57	57

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p04.pddl	24	57	57	57	57
p05.pddl	24	61	61	61	61

Expansions-*openstacks-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	24	60	71	60	60
p02.pddl	24	64	84	64	64
p03.pddl	24	63	66	63	63
p04.pddl	24	63	66	63	63
p05.pddl	24	63	67	63	63

Expansions-*organic-synthesis-opt18-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	2	2	2	2	2
p03.pddl	3	3	3	3	3
p07.pddl	3	3	3	3	3

Expansions-*organic-synthesis-opt18-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	2	2	2	2	2
p03.pddl	3	3	3	3	3
p07.pddl	3	3	3	3	3

Expansions-*organic-synthesis-opt18-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	2	2	2	2	2
p03.pddl	3	3	3	3	3
p07.pddl	3	3	3	3	3

Expansions-*organic-synthesis-opt18-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	2	2	2	2	2
p03.pddl	3	3	3	3	3
p07.pddl	3	3	3	3	3

Expansions-*parcprinter-08-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	12	12	12	12	12
p11.pddl	10	11	11	11	11
p21.pddl	9	9	9	9	9

Expansions-*parcprinter-08-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	12	12	12	12	12
p11.pddl	10	10	10	10	10
p21.pddl	9	9	9	9	9

Expansions-*parcprinter-08-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	9	9	9	9	9
p11.pddl	10	12	12	12	12
p21.pddl	9	9	9	9	9

Expansions-*parcprinter-08-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	9	9	9	9	9
p11.pddl	10	10	10	10	10
p21.pddl	9	9	9	9	9

Expansions-*pegsol-08-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	11	11	11	11
p05.pddl	15	219	219	219	219

Expansions-*pegsol-08-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p05.pddl	15	67	67	67	67

Expansions-*pegsol-08-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	7	7	7
p05.pddl	12	65	112	98	98

Expansions-*pegsol-08-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p05.pddl	12	52	41	45	45

Expansions-*psr-small*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	9	9	11	11	11
p02-s5-n1-l3-f30.pddl	12	19	30	30	30
p03-s7-n1-l3-f70.pddl	12	19	30	30	30
p04-s8-n1-l4-f10.pddl	11	11	21	21	21
p05-s9-n1-l4-f30.pddl	12	19	30	30	30
p06-s10-n1-l4-f50.pddl	9	9	11	11	11
p07-s11-n1-l4-f70.pddl	12	19	30	30	30
p08-s12-n1-l5-f10.pddl	9	9	11	11	11
p09-s13-n1-l5-f30.pddl	9	9	11	11	11
p10-s17-n2-l2-f30.pddl	8	26	31	31	31

p11-s18-n2-l2-f50.pddl	20	48	54	54	54
p12-s21-n2-l3-f30.pddl	17	30	28	28	28
p13-s22-n2-l3-f50.pddl	16	21	40	40	40
p14-s23-n2-l3-f70.pddl	10	11	12	12	12
p15-s24-n2-l4-f10.pddl	11	1820	6300	6300	6300
p16-s29-n2-l5-f30.pddl	26	1374	1384	1384	1384
p17-s30-n2-l5-f50.pddl	10	11	12	12	12
p18-s31-n2-l5-f70.pddl	13	21	31	31	31
p19-s33-n3-l2-f30.pddl	26	945	7756	7756	7756
p20-s34-n3-l2-f50.pddl	18	33	31	31	31
p21-s35-n3-l2-f70.pddl	11	13	13	13	13
p22-s37-n3-l3-f30.pddl	34	313	194	194	194
p23-s38-n3-l3-f50.pddl	13	15	23	23	23
p24-s39-n3-l3-f70.pddl	11	13	13	13	13
p26-s41-n3-l4-f30.pddl	18	33	31	31	31
p27-s42-n3-l4-f50.pddl	22	48	85	85	85
p28-s43-n3-l4-f70.pddl	15	20	44	44	44
p29-s45-n3-l5-f30.pddl	22	311	160	160	160
p30-s46-n3-l5-f50.pddl	23	64	101	101	101
p32-s50-n4-l2-f50.pddl	25	123	112	112	112
p33-s51-n4-l2-f70.pddl	22	493	522	522	522
p34-s55-n4-l3-f70.pddl	22	57	61	61	61
p38-s78-n3-l3-f50.pddl	14	18	28	28	28
p39-s79-n3-l3-f70.pddl	24	68	157	157	157
p41-s81-n3-l4-f30.pddl	11	13	13	13	13
p42-s82-n3-l4-f50.pddl	31	1706	1714	1714	1714
p43-s83-n3-l4-f70.pddl	21	45	106	106	106
p44-s89-n4-l2-f30.pddl	20	77	82	82	82
p45-s94-n4-l3-f50.pddl	21	45	47	47	47
p47-s98-n5-l2-f50.pddl	28	89	119	119	119
p50-s107-n6-l2-f70.pddl	24	70	75	80	80

Expansions-*psr-small*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	9	9	9	9	9
p02-s5-n1-l3-f30.pddl	12	19	19	19	19
p03-s7-n1-l3-f70.pddl	12	19	19	19	19
p04-s8-n1-l4-f10.pddl	11	11	11	11	11
p05-s9-n1-l4-f30.pddl	12	19	19	19	19
p06-s10-n1-l4-f50.pddl	9	9	9	9	9
p07-s11-n1-l4-f70.pddl	12	19	19	19	19
p08-s12-n1-l5-f10.pddl	9	9	9	9	9
p09-s13-n1-l5-f30.pddl	9	9	9	9	9
p10-s17-n2-l2-f30.pddl	8	14	14	14	14
p11-s18-n2-l2-f50.pddl	20	34	62	62	62
p12-s21-n2-l3-f30.pddl	17	27	43	43	43
p13-s22-n2-l3-f50.pddl	16	29	30	30	30
p14-s23-n2-l3-f70.pddl	10	11	11	11	11
p15-s24-n2-l4-f10.pddl	11	32	124	158	158
p16-s29-n2-l5-f30.pddl	26	288	874	1287	1287
p17-s30-n2-l5-f50.pddl	10	11	11	11	11
p18-s31-n2-l5-f70.pddl	13	21	21	21	21
p19-s33-n3-l2-f30.pddl	26	205	1243	1332	1332
p20-s34-n3-l2-f50.pddl	18	32	42	46	46
p21-s35-n3-l2-f70.pddl	11	15	15	15	15
p22-s37-n3-l3-f30.pddl	34	137	485	560	560
p23-s38-n3-l3-f50.pddl	13	20	20	20	20
p24-s39-n3-l3-f70.pddl	11	15	15	15	15
p26-s41-n3-l4-f30.pddl	18	36	46	50	50
p27-s42-n3-l4-f50.pddl	22	46	67	67	67
p28-s43-n3-l4-f70.pddl	15	21	21	21	21
p29-s45-n3-l5-f30.pddl	22	1020	123	915	915
p30-s46-n3-l5-f50.pddl	23	53	96	96	96
p32-s50-n4-l2-f50.pddl	25	89	227	227	227
p33-s51-n4-l2-f70.pddl	22	82	508	699	699
p34-s55-n4-l3-f70.pddl	22	43	76	76	76
p38-s78-n3-l3-f50.pddl	14	21	26	26	26

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p39-s79-n3-l3-f70.pddl	24	68	91	91	91
p41-s81-n3-l4-f30.pddl	11	15	15	15	15
p42-s82-n3-l4-f50.pddl	31	853	992	1100	1100
p43-s83-n3-l4-f70.pddl	21	62	104	104	104
p44-s89-n4-l2-f30.pddl	20	42	110	110	110
p45-s94-n4-l3-f50.pddl	21	53	58	58	58
p47-s98-n5-l2-f50.pddl	28	110	81	167	167
p50-s107-n6-l2-f70.pddl	24	69	108	108	108

Expansions-*psr-small*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	9	9	11	11	11
p02-s5-n1-l3-f30.pddl	12	19	30	30	30
p03-s7-n1-l3-f70.pddl	12	19	30	30	30
p04-s8-n1-l4-f10.pddl	11	11	21	21	21
p05-s9-n1-l4-f30.pddl	12	19	30	30	30
p06-s10-n1-l4-f50.pddl	9	9	11	11	11
p07-s11-n1-l4-f70.pddl	12	19	30	30	30
p08-s12-n1-l5-f10.pddl	9	9	11	11	11
p09-s13-n1-l5-f30.pddl	9	9	11	11	11
p10-s17-n2-l2-f30.pddl	8	26	31	31	31
p11-s18-n2-l2-f50.pddl	20	48	54	54	54
p12-s21-n2-l3-f30.pddl	17	30	28	28	28
p13-s22-n2-l3-f50.pddl	16	21	40	40	40
p14-s23-n2-l3-f70.pddl	10	11	12	12	12
p15-s24-n2-l4-f10.pddl	11	1820	6300	6300	6300
p16-s29-n2-l5-f30.pddl	26	1374	1384	1384	1384
p17-s30-n2-l5-f50.pddl	10	11	12	12	12
p18-s31-n2-l5-f70.pddl	13	21	31	31	31
p19-s33-n3-l2-f30.pddl	26	945	7756	7756	7756
p20-s34-n3-l2-f50.pddl	18	33	31	31	31
p21-s35-n3-l2-f70.pddl	11	13	13	13	13
p22-s37-n3-l3-f30.pddl	34	313	194	194	194
p23-s38-n3-l3-f50.pddl	13	15	23	23	23

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p24-s39-n3-l3-f70.pddl	11	13	13	13	13
p26-s41-n3-l4-f30.pddl	18	33	31	31	31
p27-s42-n3-l4-f50.pddl	22	48	85	85	85
p28-s43-n3-l4-f70.pddl	15	20	44	44	44
p29-s45-n3-l5-f30.pddl	22	311	160	160	160
p30-s46-n3-l5-f50.pddl	23	64	101	101	101
p32-s50-n4-l2-f50.pddl	25	123	112	112	112
p33-s51-n4-l2-f70.pddl	22	493	522	522	522
p34-s55-n4-l3-f70.pddl	22	57	61	61	61
p38-s78-n3-l3-f50.pddl	14	18	28	28	28
p39-s79-n3-l3-f70.pddl	24	68	157	157	157
p41-s81-n3-l4-f30.pddl	11	13	13	13	13
p42-s82-n3-l4-f50.pddl	31	1706	1714	1714	1714
p43-s83-n3-l4-f70.pddl	21	45	106	106	106
p44-s89-n4-l2-f30.pddl	20	77	82	82	82
p45-s94-n4-l3-f50.pddl	21	45	47	47	47
p47-s98-n5-l2-f50.pddl	28	89	119	119	119
p50-s107-n6-l2-f70.pddl	24	70	75	80	80

Expansions-*psr-small*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	9	9	9	9	9
p02-s5-n1-l3-f30.pddl	12	19	19	19	19
p03-s7-n1-l3-f70.pddl	12	19	19	19	19
p04-s8-n1-l4-f10.pddl	11	11	11	11	11
p05-s9-n1-l4-f30.pddl	12	19	19	19	19
p06-s10-n1-l4-f50.pddl	9	9	9	9	9
p07-s11-n1-l4-f70.pddl	12	19	19	19	19
p08-s12-n1-l5-f10.pddl	9	9	9	9	9
p09-s13-n1-l5-f30.pddl	9	9	9	9	9
p10-s17-n2-l2-f30.pddl	8	14	14	14	14
p11-s18-n2-l2-f50.pddl	20	34	62	62	62
p12-s21-n2-l3-f30.pddl	17	27	43	43	43
p13-s22-n2-l3-f50.pddl	16	29	30	30	30

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p14-s23-n2-l3-f70.pddl	10	11	11	11	11
p15-s24-n2-l4-f10.pddl	11	32	124	158	158
p16-s29-n2-l5-f30.pddl	26	288	874	1287	1287
p17-s30-n2-l5-f50.pddl	10	11	11	11	11
p18-s31-n2-l5-f70.pddl	13	21	21	21	21
p19-s33-n3-l2-f30.pddl	26	205	1243	1332	1332
p20-s34-n3-l2-f50.pddl	18	32	42	46	46
p21-s35-n3-l2-f70.pddl	11	15	15	15	15
p22-s37-n3-l3-f30.pddl	34	137	485	560	560
p23-s38-n3-l3-f50.pddl	13	20	20	20	20
p24-s39-n3-l3-f70.pddl	11	15	15	15	15
p26-s41-n3-l4-f30.pddl	18	36	46	50	50
p27-s42-n3-l4-f50.pddl	22	46	67	67	67
p28-s43-n3-l4-f70.pddl	15	21	21	21	21
p29-s45-n3-l5-f30.pddl	22	1020	123	915	915
p30-s46-n3-l5-f50.pddl	23	53	96	96	96
p32-s50-n4-l2-f50.pddl	25	89	227	227	227
p33-s51-n4-l2-f70.pddl	22	82	508	699	699
p34-s55-n4-l3-f70.pddl	22	43	76	76	76
p38-s78-n3-l3-f50.pddl	14	21	26	26	26
p39-s79-n3-l3-f70.pddl	24	68	91	91	91
p41-s81-n3-l4-f30.pddl	11	15	15	15	15
p42-s82-n3-l4-f50.pddl	31	853	992	1100	1100
p43-s83-n3-l4-f70.pddl	21	62	104	104	104
p44-s89-n4-l2-f30.pddl	20	42	110	110	110
p45-s94-n4-l3-f50.pddl	21	53	58	58	58
p47-s98-n5-l2-f50.pddl	28	110	81	167	167
p50-s107-n6-l2-f70.pddl	24	69	108	108	108

Expansions-*rovers*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	25	25	25	25
p02.pddl	9	13	13	13	13
p03.pddl	12	90	90	90	90

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p04.pddl	9	10	10	10	10
p05.pddl	23	140	140	140	140

Expansions-*rovers*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	13	13	42	42
p02.pddl	9	10	12	10	10
p03.pddl	12	13	14	14	14
p04.pddl	9	9	9	9	9
p05.pddl	23	33	27	33	33

Expansions-*rovers*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	25	25	25	25
p02.pddl	9	13	13	13	13
p03.pddl	12	90	90	90	90
p04.pddl	9	10	10	10	10
p05.pddl	23	140	140	140	140

Expansions-*rovers*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	13	13	42	42
p02.pddl	9	10	12	10	10
p03.pddl	12	13	14	14	14
p04.pddl	9	9	9	9	9
p05.pddl	23	33	27	33	33

Expansions-*satellite*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	10	19	22	22	22
p02-pfile2.pddl	14	27	57	32	32
p03-pfile3.pddl	12	81	81	81	81

p04-pfile4.pddl	18	1454	804	663	663

Expansions-*satellite*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	10	10	13	13	13
p02-pfile2.pddl	14	14	37	18	18
p03-pfile3.pddl	12	14	105	33	33
p04-pfile4.pddl	18	20	1451	657	657

Expansions-*satellite*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	10	19	22	22	22
p02-pfile2.pddl	14	27	57	32	32
p03-pfile3.pddl	12	81	81	81	81
p04-pfile4.pddl	18	1454	804	663	663

Expansions-*satellite*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-pfile1.pddl	10	10	13	13	13
p02-pfile2.pddl	14	14	37	18	18
p03-pfile3.pddl	12	14	105	33	33
p04-pfile4.pddl	18	20	1451	657	657

Expansions-*scanalyzer-08-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	7	7	7	13	7
p02.pddl	11	29	40	13	18
p03.pddl	15	33	54	59	29
p22.pddl	6	7	6	6	6
p23.pddl	6	7	6	6	6
p24.pddl	6	7	6	6	6

Expansions-*scanalyzer-08-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	12	7
p02.pddl	11	29	15	17	13
p03.pddl	15	33	29	23	22
p22.pddl	6	6	6	6	6
p23.pddl	6	6	6	6	6
p24.pddl	6	6	6	6	6

Expansions-*scanalyzer-08-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	10	7	7
p02.pddl	11	13	44	43	43
p03.pddl	15	26	85	27	27
p22.pddl	6	7	6	6	6
p23.pddl	6	7	6	6	6
p24.pddl	6	7	6	6	6

Expansions-*scanalyzer-08-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	11	13	22	14	14
p03.pddl	15	26	42	28	28
p22.pddl	6	6	6	6	6
p23.pddl	6	6	6	6	6
p24.pddl	6	6	6	6	6

Expansions-*scanalyzer-opt11-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	7	6	6	6
p02.pddl	11	29	40	13	18
p03.pddl	15	33	54	59	29

Expansions-*scanalyzer-opt11-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	11	29	15	17	13
p03.pddl	15	33	29	23	22

Expansions-*scanalyzer-opt11-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	7	6	6	6
p02.pddl	11	13	44	43	43
p03.pddl	15	26	85	27	27

Expansions-*scanalyzer-opt11-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	11	13	22	14	14
p03.pddl	15	26	42	28	28

Expansions-*storage*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	4	4	4	4	4
p02.pddl	4	4	4	4	4
p03.pddl	4	4	4	4	4
p04.pddl	9	23	27	27	27
p05.pddl	9	23	23	23	23
p06.pddl	9	24	24	24	24
p07.pddl	15	71	137	137	137

Expansions-*storage*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	4	4	4	4	4
p02.pddl	4	4	4	4	4

p03.pddl	4	4	4	4	4
p04.pddl	9	16	19	19	19
p05.pddl	9	16	16	16	16
p06.pddl	9	18	18	18	18
p07.pddl	15	136	139	139	139

Expansions-*storage*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	4	4	4	4	4
p02.pddl	4	4	4	4	4
p03.pddl	4	4	4	4	4
p04.pddl	9	23	27	27	27
p05.pddl	9	23	23	23	23
p06.pddl	9	24	24	24	24
p07.pddl	15	71	137	137	137

Expansions-*storage*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	4	4	4	4	4
p02.pddl	4	4	4	4	4
p03.pddl	4	4	4	4	4
p04.pddl	9	16	19	19	19
p05.pddl	9	16	16	16	16
p06.pddl	9	18	18	18	18
p07.pddl	15	136	139	139	139

Expansions-*termes-opt18-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	5160	4784	4823	4823
p02.pddl	55	4534	3791	3809	3809
p11.pddl	67	7661	7854	7858	7858
p12.pddl	47	301	448	448	448
p17.pddl	117	14169	11340	11299	11299

p18.pddl	77	1419	1231	1231	1231

Expansions-*termes-opt18-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	1666	5643	6030	6030
p02.pddl	55	2833	4120	4469	4469
p11.pddl	67	3077	3843	4187	4187
p12.pddl	47	267	192	203	199
p17.pddl	117	3343	4962	6505	6505
p18.pddl	77	1121	447	608	608

Expansions-*termes-opt18-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	5160	4784	4823	4823
p02.pddl	55	4534	3791	3809	3809
p11.pddl	67	7661	7854	7858	7858
p12.pddl	47	301	448	448	448
p17.pddl	117	14169	11340	11299	11299
p18.pddl	77	1419	1231	1231	1231

Expansions-*termes-opt18-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	37	1666	5643	6030	6030
p02.pddl	55	2833	4120	4469	4469
p11.pddl	67	3077	3843	4187	4187
p12.pddl	47	267	192	203	199
p17.pddl	117	3343	4962	6505	6505
p18.pddl	77	1121	447	608	608

Expansions-*tpp*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	7	7	7	7

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p02.pddl	9	13	13	14	14
p03.pddl	12	19	19	22	22
p04.pddl	15	25	25	31	31

Expansions-*tpp*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	9	9	9	9	9
p03.pddl	12	12	12	12	12
p04.pddl	15	15	15	15	15

Expansions-*tpp*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	7	7	7	7
p02.pddl	9	13	13	14	14
p03.pddl	12	19	19	22	22
p04.pddl	15	25	25	31	31

Expansions-*tpp*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	9	9	9	9	9
p03.pddl	12	12	12	12	12
p04.pddl	15	15	15	15	15

Expansions-*transport-opt08-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6	28	24	24	24
p02.pddl	13	117	656	92	656
p03.pddl	18	748	1061	499	1061
p11.pddl	10	49	109	42	109
p13.pddl	23	899	7673	750	7673

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	8	28	25	25	25
p23.pddl	20	1194	1068	879	1068

Expansions-*transport-opt08-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	24	6	6	6
p02.pddl	13	34	20	13	13
p03.pddl	18	55	40	39	39
p11.pddl	10	20	10	10	10
p13.pddl	23	49	45	41	41
p21.pddl	8	8	8	8	8
p23.pddl	20	273	26	24	24

Expansions-*transport-opt08-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	13	13	13	13
p02.pddl	13	55	55	55	55
p03.pddl	18	422	845	422	422
p11.pddl	10	23	23	23	23
p13.pddl	22	1156	1282	1156	1156
p21.pddl	8	19	19	19	19
p23.pddl	18	522	583	522	522

Expansions-*transport-opt08-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	13	29	13	13	13
p03.pddl	18	36	33	36	36
p11.pddl	10	11	10	10	10
p13.pddl	22	33	33	33	33
p21.pddl	8	8	8	8	8
p23.pddl	18	50	26	26	26

Expansions-*transport-opt11-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	20	1194	1068	879	1068
p02.pddl	18	748	1061	499	1061
p04.pddl	23	899	7673	750	7673

Expansions-*transport-opt11-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	20	273	26	24	24
p02.pddl	18	55	40	39	39
p04.pddl	23	49	45	41	41

Expansions-*transport-opt11-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18	522	583	522	522
p02.pddl	18	422	845	422	422
p04.pddl	22	1156	1282	1156	1156

Expansions-*transport-opt11-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18	50	26	26	26
p02.pddl	18	36	33	36	36
p04.pddl	22	33	33	33	33

Expansions-*transport-opt14-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	26	939	10954	663	10954

Expansions-*transport-opt14-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	26	50	76	99	99

Expansions-*transport-opt14-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	26	476	519	476	476

Expansions-*transport-opt14-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	26	52	212	212	212

Expansions-*trucks-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	14	22	22	22	22
p02.pddl	18	384	384	384	384
p03.pddl	21	756	756	179	179

Expansions-*trucks-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	14	18	17	25	25
p02.pddl	18	33	20	37	37
p03.pddl	21	41	74	87	87

Expansions-*trucks-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	14	22	22	22	22
p02.pddl	18	384	384	384	384
p03.pddl	21	756	756	179	179

Expansions-*trucks-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	14	18	17	25	25
p02.pddl	18	33	20	37	37
p03.pddl	21	41	74	87	87

Expansions-*visitall-opt11-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	4	4	4	4	4
problem02-half.pddl	2	2	2	2	2
problem03-full.pddl	9	9	9	9	9
problem03-half.pddl	7	27	27	27	27
problem04-full.pddl	16	16	16	16	16
problem04-half.pddl	12	196	196	196	196
problem05-half.pddl	19	207	207	207	207
problem06-half.pddl	24	7536	7536	7536	7536

Expansions-*visitall-opt11-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	4	4	4	4	4
problem02-half.pddl	2	2	2	2	2
problem03-full.pddl	9	9	9	9	9
problem03-half.pddl	7	7	7	7	7
problem04-full.pddl	16	16	16	16	16
problem04-half.pddl	12	15	15	15	15
problem05-half.pddl	19	20	20	20	20
problem06-half.pddl	24	28	28	28	28

Expansions-*visitall-opt11-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	4	4	4	4	4
problem02-half.pddl	2	2	2	2	2
problem03-full.pddl	9	9	9	9	9
problem03-half.pddl	7	27	27	27	27
problem04-full.pddl	16	16	16	16	16
problem04-half.pddl	12	196	196	196	196
problem05-half.pddl	19	207	207	207	207
problem06-half.pddl	24	7536	7536	7536	7536

Expansions-*visitall-opt11-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	4	4	4	4	4
problem02-half.pddl	2	2	2	2	2
problem03-full.pddl	9	9	9	9	9
problem03-half.pddl	7	7	7	7	7
problem04-full.pddl	16	16	16	16	16
problem04-half.pddl	12	15	15	15	15
problem05-half.pddl	19	20	20	20	20
problem06-half.pddl	24	28	28	28	28

Expansions-*visitall-opt14-strips*-Normal-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	22	29	29	29	29
p-05-6.pddl	26	373	373	373	373

Expansions-*visitall-opt14-strips*-Normal-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	22	24	24	24	24
p-05-6.pddl	26	31	31	31	31

Expansions-*visitall-opt14-strips*-Unitary-*sys2*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	22	29	29	29	29
p-05-6.pddl	26	373	373	373	373

Expansions-*visitall-opt14-strips*-Unitary-*sys4*

Expansions	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	22	24	24	24	24
p-05-6.pddl	26	31	31	31	31

Expansions-*woodworking-opt08-strips*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	7	7	7	7	7

Expansions-*woodworking-opt08-strips*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	7	7	7	7	7

Expansions-*woodworking-opt08-strips*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	6	6	6	6	6

Expansions-*woodworking-opt08-strips*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	6	6	6	6	6

Expansions-*zenotravel*-Normal-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	7	7	8	8	8
p03.pddl	7	27	27	27	27
p04.pddl	9	55	55	55	55
p05.pddl	12	84	75	84	84
p06.pddl	12	87	44	87	87
p07.pddl	16	171	78	126	126

Expansions-*zenotravel*-Normal-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	7	7	7	7	7
p03.pddl	7	7	7	7	7

p04.pddl	9	10	9	9	9
p05.pddl	12	15	56	12	12
p06.pddl	12	15	13	14	14
p07.pddl	16	18	30	22	22

Expansions-*zenotravel*-Unitary-*sys2*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	7	7	8	8	8
p03.pddl	7	27	27	27	27
p04.pddl	9	55	55	55	55
p05.pddl	12	84	75	84	84
p06.pddl	12	87	44	87	87
p07.pddl	16	171	78	126	126

Expansions-*zenotravel*-Unitary-*sys4*

Expansions	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	2	2	2	2
p02.pddl	7	7	7	7	7
p03.pddl	7	7	7	7	7
p04.pddl	9	10	9	9	9
p05.pddl	12	15	56	12	12
p06.pddl	12	15	13	14	14
p07.pddl	16	18	30	22	22

$h(s_0)$-value-*blocks*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	6	4	4	4
probBLOCKS-4-2.pddl	6	7	6	6	6
probBLOCKS-5-0.pddl	12	8	6	6	6
probBLOCKS-5-1.pddl	10	8	6	6	6
probBLOCKS-5-2.pddl	16	11	8	8	8

		h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-6-0.pddl	12	14	10	10	10
probBLOCKS-6-1.pddl	10	11	10	10	10
probBLOCKS-6-2.pddl	20	14	10	10	10

$h(s_0)$-value-*blocks*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	7	6	6	6
probBLOCKS-4-2.pddl	6	7	6	6	6
probBLOCKS-5-0.pddl	12	9	7	7	7
probBLOCKS-5-1.pddl	10	8	7	7	7
probBLOCKS-5-2.pddl	16	12	9	8	8
probBLOCKS-6-0.pddl	12	14	11	10	10
probBLOCKS-6-1.pddl	10	11	10	10	10
probBLOCKS-6-2.pddl	20	15	11	10	10

$h(s_0)$-value-*blocks*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	6	4	4	4
probBLOCKS-4-2.pddl	6	7	6	6	6
probBLOCKS-5-0.pddl	12	8	6	6	6
probBLOCKS-5-1.pddl	10	8	6	6	6
probBLOCKS-5-2.pddl	16	11	8	8	8
probBLOCKS-6-0.pddl	12	14	10	10	10
probBLOCKS-6-1.pddl	10	11	10	10	10
probBLOCKS-6-2.pddl	20	14	10	10	10

$h(s_0)$-value-*blocks*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	7	6	6	6
probBLOCKS-4-2.pddl	6	7	6	6	6

probBLOCKS-5-0.pddl	12	9	7	7	7
probBLOCKS-5-1.pddl	10	8	7	7	7
probBLOCKS-5-2.pddl	16	12	9	8	8
probBLOCKS-6-0.pddl	12	14	11	10	10
probBLOCKS-6-1.pddl	10	11	10	10	10
probBLOCKS-6-2.pddl	20	15	11	10	10

$h(s_0)$-value-*depot*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	8	8	8	8

$h(s_0)$-value-*depot*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	11	10	10	10

$h(s_0)$-value-*depot*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	8	8	8	8

$h(s_0)$-value-*depot*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	11	10	10	10

$h(s_0)$-value-*driverlog*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	3	3	3	3
p02.pddl	19	12	16	12	12
p03.pddl	12	8	12	8	8
p04.pddl	16	11	15	11	11
p05.pddl	18	12	16	12	12

$h(s_0)$-value-*driverlog*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	19	18	19	18	18
p03.pddl	12	11	12	11	11
p04.pddl	16	16	15	14	14
p05.pddl	18	16	16	15	15

$h(s_0)$-value-*driverlog*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	3	3	3	3
p02.pddl	19	12	16	12	12
p03.pddl	12	8	12	8	8
p04.pddl	16	11	15	11	11
p05.pddl	18	12	16	12	12

$h(s_0)$-value-*driverlog*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	19	18	19	18	18
p03.pddl	12	11	12	11	11
p04.pddl	16	16	15	14	14
p05.pddl	18	16	16	15	15

$h(s_0)$-value-*elevators-opt08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	55	25	24	24	24
p11.pddl	56	36	33	28	28

$h(s_0)$-value-*elevators-opt08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	55	45	49	41	42

p11.pddl	56	82	63	54	54

$h(s_0)$-value-*elevators-opt08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	18	17	14	14	14
p11.pddl	17	14	14	14	14

$h(s_0)$-value-*elevators-opt08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	18	19	17	17	17
p11.pddl	17	20	16	16	16

$h(s_0)$-value-*elevators-opt11-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	56	36	33	28	28
p04.pddl	55	25	24	24	24

$h(s_0)$-value-*elevators-opt11-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	56	82	63	54	54
p04.pddl	55	45	49	41	42

$h(s_0)$-value-*elevators-opt11-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	17	14	14	14	14
p04.pddl	18	17	14	14	14

$h(s_0)$-value-*elevators-opt11-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	17	20	16	16	16
p04.pddl	18	19	17	17	17

$h(s_0)$-value-*ged-opt14-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

$h(s_0)$-value-*ged-opt14-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

$h(s_0)$-value-*ged-opt14-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

$h(s_0)$-value-*ged-opt14-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

$h(s_0)$-value-*gripper*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	8	5	5	5
prob02.pddl	17	12	8	7	7
prob03.pddl	23	16	10	9	9
prob04.pddl	29	20	12	11	11
prob05.pddl	35	24	14	13	13

$h(s_0)$-value-*gripper*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	8	5	5	5
prob02.pddl	17	12	8	7	7
prob03.pddl	23	16	10	9	9
prob04.pddl	29	20	13	11	11
prob05.pddl	35	24	16	13	13

$h(s_0)$-value-*gripper*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	8	5	5	5
prob02.pddl	17	12	8	7	7
prob03.pddl	23	16	10	9	9
prob04.pddl	29	20	12	11	11
prob05.pddl	35	24	14	13	13

$h(s_0)$-value-*gripper*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	8	5	5	5
prob02.pddl	17	12	8	7	7
prob03.pddl	23	16	10	9	9
prob04.pddl	29	20	13	11	11
prob05.pddl	35	24	16	13	13

$h(s_0)$-value-*hiking-opt14-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11	4	4	4	4
ptesting-1-2-4.pddl	17	7	6	6	6
ptesting-1-2-5.pddl	25	8	8	8	8
ptesting-1-2-7.pddl	38	13	12	12	12
ptesting-1-2-8.pddl	45	15	14	14	14
ptesting-2-2-3.pddl	10	4	4	4	4

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-2-2-4.pddl	16	6	6	6	6
ptesting-2-2-5.pddl	22	8	8	8	8
ptesting-2-2-6.pddl	30	10	10	10	10
ptesting-2-3-4.pddl	17	6	6	6	6
ptesting-2-3-5.pddl	24	8	8	8	8
ptesting-2-4-3.pddl	10	4	4	4	4
ptesting-2-4-4.pddl	17	6	6	6	6

$h(s_0)$-value-*hiking-opt14-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	11	8	8	8	8
ptesting-1-2-4.pddl	17	11	11	11	11
ptesting-1-2-5.pddl	25	16	16	16	16
ptesting-1-2-7.pddl	38	23	23	23	23
ptesting-1-2-8.pddl	45	27	27	27	27
ptesting-2-2-3.pddl	10	7	7	7	7
ptesting-2-2-4.pddl	16	10	10	10	10
ptesting-2-2-5.pddl	22	13	13	13	13
ptesting-2-2-6.pddl	30	15	15	15	15
ptesting-2-3-4.pddl	17	9	9	9	9
ptesting-2-3-5.pddl	24	12	12	12	12
ptesting-2-4-3.pddl	10	7	7	7	7
ptesting-2-4-4.pddl	17	9	9	9	9

$h(s_0)$-value-*hiking-opt14-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	11	4	4	4	4
ptesting-1-2-4.pddl	17	7	6	6	6
ptesting-1-2-5.pddl	25	8	8	8	8
ptesting-1-2-7.pddl	38	13	12	12	12
ptesting-1-2-8.pddl	45	15	14	14	14
ptesting-2-2-3.pddl	10	4	4	4	4
ptesting-2-2-4.pddl	16	6	6	6	6

ptesting-2-2-5.pddl	22	8	8	8	8
ptesting-2-2-6.pddl	30	10	10	10	10
ptesting-2-3-4.pddl	17	6	6	6	6
ptesting-2-3-5.pddl	24	8	8	8	8
ptesting-2-4-3.pddl	10	4	4	4	4
ptesting-2-4-4.pddl	17	6	6	6	6

$h(s_0)$-value-*hiking-opt14-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11	8	8	8	8
ptesting-1-2-4.pddl	17	11	11	11	11
ptesting-1-2-5.pddl	25	16	16	16	16
ptesting-1-2-7.pddl	38	23	23	23	23
ptesting-1-2-8.pddl	45	27	27	27	27
ptesting-2-2-3.pddl	10	7	7	7	7
ptesting-2-2-4.pddl	16	10	10	10	10
ptesting-2-2-5.pddl	22	13	13	13	13
ptesting-2-2-6.pddl	30	15	15	15	15
ptesting-2-3-4.pddl	17	9	9	9	9
ptesting-2-3-5.pddl	24	12	12	12	12
ptesting-2-4-3.pddl	10	7	7	7	7
ptesting-2-4-4.pddl	17	9	9	9	9

$h(s_0)$-value-*logistics00*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	20	19	19
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	14	14	14
probLOGISTICS-5-0.pddl	27	27	29	27	27
probLOGISTICS-5-1.pddl	17	17	18	16	16
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	27	25	25
probLOGISTICS-6-1.pddl	14	14	13	13	13

probLOGISTICS-6-2.pddl	25	25	31	25	25
probLOGISTICS-6-9.pddl	24	24	23	23	23

$h(s_0)$-value-*logistics00*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	21	20	20
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	15	15	15
probLOGISTICS-5-0.pddl	27	27	31	27	27
probLOGISTICS-5-1.pddl	17	17	19	17	17
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	29	25	25
probLOGISTICS-6-1.pddl	14	14	14	14	14
probLOGISTICS-6-2.pddl	25	25	30	25	25
probLOGISTICS-6-9.pddl	24	24	25	24	24

$h(s_0)$-value-*logistics00*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	20	19	19
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	14	14	14
probLOGISTICS-5-0.pddl	27	27	29	27	27
probLOGISTICS-5-1.pddl	17	17	18	16	16
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	27	25	25
probLOGISTICS-6-1.pddl	14	14	13	13	13
probLOGISTICS-6-2.pddl	25	25	31	25	25
probLOGISTICS-6-9.pddl	24	24	23	23	23

$h(s_0)$-value-*logistics00*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	21	20	20
probLOGISTICS-4-1.pddl	19	19	19	19	19

probLOGISTICS-4-2.pddl	15	15	15	15	15
probLOGISTICS-5-0.pddl	27	27	31	27	27
probLOGISTICS-5-1.pddl	17	17	19	17	17
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	29	25	25
probLOGISTICS-6-1.pddl	14	14	14	14	14
probLOGISTICS-6-2.pddl	25	25	30	25	25
probLOGISTICS-6-9.pddl	24	24	25	24	24

$h(s_0)$-value-*logistics98*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	11	11	11	11
prob32.pddl	20	16	16	16	16

$h(s_0)$-value-*logistics98*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	13	13	13	13
prob32.pddl	20	20	19	19	19

$h(s_0)$-value-*logistics98*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	11	11	11	11
prob32.pddl	20	16	16	16	16

$h(s_0)$-value-*logistics98*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	13	13	13	13
prob32.pddl	20	20	19	19	19

$h(s_0)$-value-*miconic*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4	2	2	2	2

s1-1.pddl	3	3	2	2	2
s1-2.pddl	4	2	2	2	2
s1-3.pddl	4	2	2	2	2
s1-4.pddl	4	2	2	2	2
s10-0.pddl	33	30	21	20	20
s10-1.pddl	32	30	21	20	20
s10-2.pddl	32	29	21	20	20
s10-3.pddl	34	30	21	20	20
s10-4.pddl	33	29	21	20	20
s11-0.pddl	37	32	23	22	22
s11-1.pddl	34	33	23	22	22
s11-2.pddl	38	32	23	22	22
s11-3.pddl	38	33	23	22	22
s11-4.pddl	35	32	23	22	22
s2-0.pddl	7	6	4	4	4
s2-1.pddl	7	5	4	4	4
s2-2.pddl	7	5	4	4	4
s2-3.pddl	7	6	4	4	4
s2-4.pddl	7	5	4	4	4
s3-0.pddl	10	9	7	6	6
s3-1.pddl	11	9	7	6	6
s3-2.pddl	10	6	6	6	6
s3-3.pddl	10	8	6	6	6
s3-4.pddl	10	7	6	6	6
s4-0.pddl	14	12	9	8	8
s4-1.pddl	13	12	9	8	8
s4-2.pddl	15	11	9	8	8
s4-3.pddl	15	11	9	8	8
s4-4.pddl	15	12	9	8	8
s5-0.pddl	17	15	11	10	10
s5-1.pddl	17	13	11	10	10
s5-2.pddl	15	13	11	10	10
s5-3.pddl	17	15	11	10	10
s5-4.pddl	18	14	11	10	10

s6-0.pddl	19	17	13	12	12
s6-1.pddl	19	18	13	12	12
s6-2.pddl	20	17	13	12	12
s6-3.pddl	20	16	13	12	12
s6-4.pddl	21	17	13	12	12
s7-0.pddl	23	21	15	14	14
s7-1.pddl	24	21	15	14	14
s7-2.pddl	22	21	15	14	14
s7-3.pddl	22	21	15	14	14
s7-4.pddl	25	21	15	14	14
s8-0.pddl	27	24	17	16	16
s8-1.pddl	27	24	17	16	16
s8-2.pddl	26	23	17	16	16
s8-3.pddl	28	23	17	16	16
s8-4.pddl	27	23	17	16	16
s9-0.pddl	31	26	19	18	18
s9-1.pddl	30	26	19	18	18
s9-2.pddl	30	26	19	18	18
s9-3.pddl	32	26	19	18	18
s9-4.pddl	28	27	19	18	18

$h(s_0)$-value-*miconic*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	4	4	4	4	4
s1-1.pddl	3	3	3	3	3
s1-2.pddl	4	4	4	4	4
s1-3.pddl	4	4	4	4	4
s1-4.pddl	4	4	4	4	4
s10-0.pddl	33	39	24	22	22
s10-1.pddl	32	37	24	22	22
s10-2.pddl	32	39	24	22	22
s10-3.pddl	34	40	24	22	22
s10-4.pddl	33	39	24	22	22
s11-0.pddl	37	43	26	24	24

s11-1.pddl	34	43	26	24	24
s11-2.pddl	38	44	26	24	24
s11-3.pddl	38	44	26	24	24
s11-4.pddl	35	44	26	24	24
s2-0.pddl	7	8	6	6	6
s2-1.pddl	7	7	6	6	6
s2-2.pddl	7	7	6	6	6
s2-3.pddl	7	8	7	6	6
s2-4.pddl	7	8	7	6	6
s3-0.pddl	10	12	9	8	8
s3-1.pddl	11	12	9	8	8
s3-2.pddl	10	12	9	8	8
s3-3.pddl	10	11	9	8	8
s3-4.pddl	10	11	9	8	8
s4-0.pddl	14	16	12	10	10
s4-1.pddl	13	14	11	10	10
s4-2.pddl	15	16	12	10	10
s4-3.pddl	15	16	12	10	10
s4-4.pddl	15	16	12	10	10
s5-0.pddl	17	20	14	12	12
s5-1.pddl	17	19	14	12	12
s5-2.pddl	15	19	14	12	12
s5-3.pddl	17	20	14	12	12
s5-4.pddl	18	20	14	12	12
s6-0.pddl	19	24	16	14	14
s6-1.pddl	19	23	16	14	14
s6-2.pddl	20	24	16	14	14
s6-3.pddl	20	24	16	14	14
s6-4.pddl	21	24	16	14	14
s7-0.pddl	23	28	18	16	16
s7-1.pddl	24	28	18	16	16
s7-2.pddl	22	27	18	16	16
s7-3.pddl	22	26	18	16	16
s7-4.pddl	25	27	18	16	16

s8-0.pddl	27	32	20	18	18
s8-1.pddl	27	31	20	18	18
s8-2.pddl	26	32	20	18	18
s8-3.pddl	28	31	20	18	18
s8-4.pddl	27	32	20	18	18
s9-0.pddl	31	36	22	20	20
s9-1.pddl	30	35	22	20	20
s9-2.pddl	30	35	22	20	20
s9-3.pddl	32	36	22	20	20
s9-4.pddl	28	34	22	20	20

$h(s_0)$-value-*miconic*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4	2	2	2	2
s1-1.pddl	3	3	2	2	2
s1-2.pddl	4	2	2	2	2
s1-3.pddl	4	2	2	2	2
s1-4.pddl	4	2	2	2	2
s10-0.pddl	33	30	21	20	20
s10-1.pddl	32	30	21	20	20
s10-2.pddl	32	29	21	20	20
s10-3.pddl	34	30	21	20	20
s10-4.pddl	33	29	21	20	20
s11-0.pddl	37	32	23	22	22
s11-1.pddl	34	33	23	22	22
s11-2.pddl	38	32	23	22	22
s11-3.pddl	38	33	23	22	22
s11-4.pddl	35	32	23	22	22
s2-0.pddl	7	6	4	4	4
s2-1.pddl	7	5	4	4	4
s2-2.pddl	7	5	4	4	4
s2-3.pddl	7	6	4	4	4
s2-4.pddl	7	5	4	4	4
s3-0.pddl	10	9	7	6	6

s3-1.pddl	11	9	7	6	6
s3-2.pddl	10	6	6	6	6
s3-3.pddl	10	8	6	6	6
s3-4.pddl	10	7	6	6	6
s4-0.pddl	14	12	9	8	8
s4-1.pddl	13	12	9	8	8
s4-2.pddl	15	11	9	8	8
s4-3.pddl	15	11	9	8	8
s4-4.pddl	15	12	9	8	8
s5-0.pddl	17	15	11	10	10
s5-1.pddl	17	13	11	10	10
s5-2.pddl	15	13	11	10	10
s5-3.pddl	17	15	11	10	10
s5-4.pddl	18	14	11	10	10
s6-0.pddl	19	17	13	12	12
s6-1.pddl	19	18	13	12	12
s6-2.pddl	20	17	13	12	12
s6-3.pddl	20	16	13	12	12
s6-4.pddl	21	17	13	12	12
s7-0.pddl	23	21	15	14	14
s7-1.pddl	24	21	15	14	14
s7-2.pddl	22	21	15	14	14
s7-3.pddl	22	21	15	14	14
s7-4.pddl	25	21	15	14	14
s8-0.pddl	27	24	17	16	16
s8-1.pddl	27	24	17	16	16
s8-2.pddl	26	23	17	16	16
s8-3.pddl	28	23	17	16	16
s8-4.pddl	27	23	17	16	16
s9-0.pddl	31	26	19	18	18
s9-1.pddl	30	26	19	18	18
s9-2.pddl	30	26	19	18	18
s9-3.pddl	32	26	19	18	18
s9-4.pddl	28	27	19	18	18

$h(s_0)$-value-*miconic*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4	4	4	4	4
s1-1.pddl	3	3	3	3	3
s1-2.pddl	4	4	4	4	4
s1-3.pddl	4	4	4	4	4
s1-4.pddl	4	4	4	4	4
s10-0.pddl	33	39	24	22	22
s10-1.pddl	32	37	24	22	22
s10-2.pddl	32	39	24	22	22
s10-3.pddl	34	40	24	22	22
s10-4.pddl	33	39	24	22	22
s11-0.pddl	37	43	26	24	24
s11-1.pddl	34	43	26	24	24
s11-2.pddl	38	44	26	24	24
s11-3.pddl	38	44	26	24	24
s11-4.pddl	35	44	26	24	24
s2-0.pddl	7	8	6	6	6
s2-1.pddl	7	7	6	6	6
s2-2.pddl	7	7	6	6	6
s2-3.pddl	7	8	7	6	6
s2-4.pddl	7	8	7	6	6
s3-0.pddl	10	12	9	8	8
s3-1.pddl	11	12	9	8	8
s3-2.pddl	10	12	9	8	8
s3-3.pddl	10	11	9	8	8
s3-4.pddl	10	11	9	8	8
s4-0.pddl	14	16	12	10	10
s4-1.pddl	13	14	11	10	10
s4-2.pddl	15	16	12	10	10
s4-3.pddl	15	16	12	10	10
s4-4.pddl	15	16	12	10	10
s5-0.pddl	17	20	14	12	12
s5-1.pddl	17	19	14	12	12

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s5-2.pddl	15	19	14	12	12
s5-3.pddl	17	20	14	12	12
s5-4.pddl	18	20	14	12	12
s6-0.pddl	19	24	16	14	14
s6-1.pddl	19	23	16	14	14
s6-2.pddl	20	24	16	14	14
s6-3.pddl	20	24	16	14	14
s6-4.pddl	21	24	16	14	14
s7-0.pddl	23	28	18	16	16
s7-1.pddl	24	28	18	16	16
s7-2.pddl	22	27	18	16	16
s7-3.pddl	22	26	18	16	16
s7-4.pddl	25	27	18	16	16
s8-0.pddl	27	32	20	18	18
s8-1.pddl	27	31	20	18	18
s8-2.pddl	26	32	20	18	18
s8-3.pddl	28	31	20	18	18
s8-4.pddl	27	32	20	18	18
s9-0.pddl	31	36	22	20	20
s9-1.pddl	30	35	22	20	20
s9-2.pddl	30	35	22	20	20
s9-3.pddl	32	36	22	20	20
s9-4.pddl	28	34	22	20	20

$h(s_0)$-value-*movie*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

$h(s_0)$-value-*movie*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7

	h^*				
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

$h(s_0)$-value-*movie*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7

prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

$h(s_0)$-value-*movie*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

$h(s_0)$-value-*mprime*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	2	2	2	2

$h(s_0)$-value-*mprime*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	4	4	4	4

$h(s_0)$-value-*mprime*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	2	2	2	2

$h(s_0)$-value-*mprime*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	4	4	4	4

$h(s_0)$-value-*mystery*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	2	2	2	2

$h(s_0)$-value-*mystery*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	4	4	4	4

$h(s_0)$-value-*mystery*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	2	2	2	2

$h(s_0)$-value-*mystery*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	4	4	4	4

$h(s_0)$-value-*nomystery-opt11-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	8	10	8	8
p02.pddl	14	12	13	12	12
p03.pddl	15	14	15	14	14
p04.pddl	19	16	17	16	16
p11.pddl	12	8	10	8	8

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p12.pddl	14	12	13	12	12
p13.pddl	15	14	15	14	14
p14.pddl	19	16	17	16	16

$h(s_0)$-value-*nomystery-opt11-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	10	13	10	10
p02.pddl	14	14	18	14	14
p03.pddl	15	15	20	15	15
p04.pddl	19	18	24	18	18
p11.pddl	12	11	13	11	11
p12.pddl	14	14	18	14	14
p13.pddl	15	15	20	15	15
p14.pddl	19	18	24	18	18

$h(s_0)$-value-*nomystery-opt11-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	8	10	8	8
p02.pddl	14	12	13	12	12
p03.pddl	15	14	15	14	14
p04.pddl	19	16	17	16	16
p11.pddl	12	8	10	8	8
p12.pddl	14	12	13	12	12
p13.pddl	15	14	15	14	14
p14.pddl	19	16	17	16	16

$h(s_0)$-value-*nomystery-opt11-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	10	13	10	10
p02.pddl	14	14	18	14	14
p03.pddl	15	15	20	15	15
p04.pddl	19	18	24	18	18
p11.pddl	12	11	13	11	11

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p12.pddl	14	14	18	14	14
p13.pddl	15	15	20	15	15
p14.pddl	19	18	24	18	18

$h(s_0)$-value-*openstacks-opt08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	0	0	0	0
p02.pddl	2	0	0	0	0
p03.pddl	2	0	0	0	0
p04.pddl	3	0	0	0	0
p05.pddl	4	0	0	0	0

$h(s_0)$-value-*openstacks-opt08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	0	0	0	0
p02.pddl	2	0	0	0	0
p03.pddl	2	0	0	0	0
p04.pddl	3	0	0	0	0
p05.pddl	4	0	0	0	0

$h(s_0)$-value-*openstacks-opt08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	15	15	15	15
p02.pddl	20	18	18	18	18
p03.pddl	23	21	21	20	20
p04.pddl	27	24	24	22	22
p05.pddl	31	27	28	25	25

$h(s_0)$-value-*openstacks-opt08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	15	15	15	15
p02.pddl	20	18	18	18	18

p03.pddl	23	21	21	21	21
p04.pddl	27	24	24	24	24
p05.pddl	31	27	32	27	27

$h(s_0)$-value-*openstacks-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	23	15	15	15	15
p02.pddl	23	15	15	15	15
p03.pddl	23	15	15	15	15
p04.pddl	23	15	15	15	15
p05.pddl	23	15	15	15	15

$h(s_0)$-value-*openstacks-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	23	15	16	15	15
p02.pddl	23	15	16	15	15
p03.pddl	23	15	16	15	15
p04.pddl	23	15	16	15	15
p05.pddl	23	15	16	15	15

$h(s_0)$-value-*openstacks-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	23	15	15	15	15
p02.pddl	23	15	15	15	15
p03.pddl	23	15	15	15	15
p04.pddl	23	15	15	15	15
p05.pddl	23	15	15	15	15

$h(s_0)$-value-*openstacks-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	23	15	16	15	15
p02.pddl	23	15	16	15	15

p03.pddl	23	15	16	15	15
p04.pddl	23	15	16	15	15
p05.pddl	23	15	16	15	15

$h(s_0)$-value-*organic-synthesis-opt18-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1	3	1	1	1
p02.pddl	1	2	1	1	1
p03.pddl	2	3	2	2	2
p07.pddl	2	2	2	2	2

$h(s_0)$-value-*organic-synthesis-opt18-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1	3	1	1	1
p02.pddl	1	2	1	1	1
p03.pddl	2	3	2	2	2
p07.pddl	2	2	2	2	2

$h(s_0)$-value-*organic-synthesis-opt18-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1	3	1	1	1
p02.pddl	1	2	1	1	1
p03.pddl	2	3	2	2	2
p07.pddl	2	2	2	2	2

$h(s_0)$-value-*organic-synthesis-opt18-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1	3	1	1	1
p02.pddl	1	2	1	1	1
p03.pddl	2	3	2	2	2
p07.pddl	2	2	2	2	2

$h(s_0)$-value-*parcprinter-08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	169009	254026	169013	169009	169009
p11.pddl	182808	139351	139452	139142	139351
p21.pddl	143411	224288	138435	138410	138414

$h(s_0)$-value-*parcprinter-08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	169009	254026	169013	169009	169009
p11.pddl	182808	287053	183222	182808	182808
p21.pddl	143411	224288	143488	143411	143411

$h(s_0)$-value-*parcprinter-08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	8	8	7	7	7
p11.pddl	9	7	6	6	6
p21.pddl	8	8	7	7	7

$h(s_0)$-value-*parcprinter-08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	8	9	8	8	8
p11.pddl	9	9	9	9	9
p21.pddl	8	8	8	8	8

$h(s_0)$-value-*pegsol-08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2	1	1	1	1
p05.pddl	4	1	1	1	1

$h(s_0)$-value-*pegsol-08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p01.pddl	2	2	2	2	2
p05.pddl	4	2	2	2	2

$h(s_0)$-value-*pegsol-08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	6	5	4	4
p05.pddl	11	6	7	6	6

$h(s_0)$-value-*pegsol-08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	6	5	5	5
p05.pddl	11	9	9	8	8

$h(s_0)$-value-*psr-small*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	2	2	2	2
p02-s5-n1-l3-f30.pddl	11	2	2	2	2
p03-s7-n1-l3-f70.pddl	11	2	2	2	2
p04-s8-n1-l4-f10.pddl	10	2	2	2	2
p05-s9-n1-l4-f30.pddl	11	2	2	2	2
p06-s10-n1-l4-f50.pddl	8	2	2	2	2
p07-s11-n1-l4-f70.pddl	11	2	2	2	2
p08-s12-n1-l5-f10.pddl	8	2	2	2	2
p09-s13-n1-l5-f30.pddl	8	2	2	2	2
p10-s17-n2-l2-f30.pddl	7	3	3	3	3
p11-s18-n2-l2-f50.pddl	19	4	2	2	2
p12-s21-n2-l3-f30.pddl	16	4	2	2	2
p13-s22-n2-l3-f50.pddl	15	4	3	3	3
p14-s23-n2-l3-f70.pddl	9	3	3	3	3
p15-s24-n2-l4-f10.pddl	10	2	2	2	2
p16-s29-n2-l5-f30.pddl	25	3	2	2	2
p17-s30-n2-l5-f50.pddl	9	3	3	3	3
p18-s31-n2-l5-f70.pddl	12	3	3	3	3

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p19-s33-n3-l2-f30.pddl	25	5	2	2	2
p20-s34-n3-l2-f50.pddl	17	5	4	3	3
p21-s35-n3-l2-f70.pddl	10	4	4	4	4
p22-s37-n3-l3-f30.pddl	33	5	4	4	4
p23-s38-n3-l3-f50.pddl	12	4	4	4	4
p24-s39-n3-l3-f70.pddl	10	4	4	4	4
p26-s41-n3-l4-f30.pddl	17	5	4	3	3
p27-s42-n3-l4-f50.pddl	21	5	4	3	3
p28-s43-n3-l4-f70.pddl	14	4	4	4	4
p29-s45-n3-l5-f30.pddl	21	5	5	5	5
p30-s46-n3-l5-f50.pddl	22	5	4	3	3
p32-s50-n4-l2-f50.pddl	24	6	5	4	4
p33-s51-n4-l2-f70.pddl	21	4	2	2	2
p34-s55-n4-l3-f70.pddl	21	6	5	4	4
p38-s78-n3-l3-f50.pddl	13	4	3	3	3
p39-s79-n3-l3-f70.pddl	23	5	4	3	3
p41-s81-n3-l4-f30.pddl	10	4	4	4	4
p42-s82-n3-l4-f50.pddl	30	4	2	2	2
p43-s83-n3-l4-f70.pddl	20	5	4	4	4
p44-s89-n4-l2-f30.pddl	19	5	5	5	5
p45-s94-n4-l3-f50.pddl	20	6	5	4	4
p47-s98-n5-l2-f50.pddl	27	7	5	4	4
p50-s107-n6-l2-f70.pddl	23	8	7	6	6

$h(s_0)$-value-*psr-small*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	3	3	3	3
p02-s5-n1-l3-f30.pddl	11	4	4	4	4
p03-s7-n1-l3-f70.pddl	11	4	4	4	4
p04-s8-n1-l4-f10.pddl	10	4	4	4	4
p05-s9-n1-l4-f30.pddl	11	4	4	4	4
p06-s10-n1-l4-f50.pddl	8	3	3	3	3
p07-s11-n1-l4-f70.pddl	11	4	4	4	4
p08-s12-n1-l5-f10.pddl	8	3	3	3	3

p09-s13-n1-l5-f30.pddl	8	3	3	3	3
p10-s17-n2-l2-f30.pddl	7	5	5	5	5
p11-s18-n2-l2-f50.pddl	19	7	6	6	6
p12-s21-n2-l3-f30.pddl	16	6	6	6	6
p13-s22-n2-l3-f50.pddl	15	7	7	7	7
p14-s23-n2-l3-f70.pddl	9	4	4	4	4
p15-s24-n2-l4-f10.pddl	10	4	4	4	4
p16-s29-n2-l5-f30.pddl	25	7	5	5	5
p17-s30-n2-l5-f50.pddl	9	4	4	4	4
p18-s31-n2-l5-f70.pddl	12	5	5	5	5
p19-s33-n3-l2-f30.pddl	25	7	5	5	5
p20-s34-n3-l2-f50.pddl	17	7	7	7	7
p21-s35-n3-l2-f70.pddl	10	5	5	5	5
p22-s37-n3-l3-f30.pddl	33	12	6	6	6
p23-s38-n3-l3-f50.pddl	12	6	6	6	6
p24-s39-n3-l3-f70.pddl	10	5	5	5	5
p26-s41-n3-l4-f30.pddl	17	7	7	7	7
p27-s42-n3-l4-f50.pddl	21	8	7	7	7
p28-s43-n3-l4-f70.pddl	14	6	6	6	6
p29-s45-n3-l5-f30.pddl	21	9	7	7	7
p30-s46-n3-l5-f50.pddl	22	8	7	7	7
p32-s50-n4-l2-f50.pddl	24	10	8	8	8
p33-s51-n4-l2-f70.pddl	21	8	5	5	5
p34-s55-n4-l3-f70.pddl	21	9	8	8	8
p38-s78-n3-l3-f50.pddl	13	7	7	7	7
p39-s79-n3-l3-f70.pddl	23	8	7	7	7
p41-s81-n3-l4-f30.pddl	10	5	5	5	5
p42-s82-n3-l4-f50.pddl	30	8	5	5	5
p43-s83-n3-l4-f70.pddl	20	9	8	8	8
p44-s89-n4-l2-f30.pddl	19	10	10	8	8
p45-s94-n4-l3-f50.pddl	20	9	8	8	8
p47-s98-n5-l2-f50.pddl	27	11	7	7	7
p50-s107-n6-l2-f70.pddl	23	11	10	10	10

$h(s_0)$-value-*psr-small*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	2	2	2	2
p02-s5-n1-l3-f30.pddl	11	2	2	2	2
p03-s7-n1-l3-f70.pddl	11	2	2	2	2
p04-s8-n1-l4-f10.pddl	10	2	2	2	2
p05-s9-n1-l4-f30.pddl	11	2	2	2	2
p06-s10-n1-l4-f50.pddl	8	2	2	2	2
p07-s11-n1-l4-f70.pddl	11	2	2	2	2
p08-s12-n1-l5-f10.pddl	8	2	2	2	2
p09-s13-n1-l5-f30.pddl	8	2	2	2	2
p10-s17-n2-l2-f30.pddl	7	3	3	3	3
p11-s18-n2-l2-f50.pddl	19	4	2	2	2
p12-s21-n2-l3-f30.pddl	16	4	2	2	2
p13-s22-n2-l3-f50.pddl	15	4	3	3	3
p14-s23-n2-l3-f70.pddl	9	3	3	3	3
p15-s24-n2-l4-f10.pddl	10	2	2	2	2
p16-s29-n2-l5-f30.pddl	25	3	2	2	2
p17-s30-n2-l5-f50.pddl	9	3	3	3	3
p18-s31-n2-l5-f70.pddl	12	3	3	3	3
p19-s33-n3-l2-f30.pddl	25	5	2	2	2
p20-s34-n3-l2-f50.pddl	17	5	4	3	3
p21-s35-n3-l2-f70.pddl	10	4	4	4	4
p22-s37-n3-l3-f30.pddl	33	5	4	4	4
p23-s38-n3-l3-f50.pddl	12	4	4	4	4
p24-s39-n3-l3-f70.pddl	10	4	4	4	4
p26-s41-n3-l4-f30.pddl	17	5	4	3	3
p27-s42-n3-l4-f50.pddl	21	5	4	3	3
p28-s43-n3-l4-f70.pddl	14	4	4	4	4
p29-s45-n3-l5-f30.pddl	21	5	5	5	5
p30-s46-n3-l5-f50.pddl	22	5	4	3	3
p32-s50-n4-l2-f50.pddl	24	6	5	4	4
p33-s51-n4-l2-f70.pddl	21	4	2	2	2
p34-s55-n4-l3-f70.pddl	21	6	5	4	4

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p38-s78-n3-l3-f50.pddl	13	4	3	3	3
p39-s79-n3-l3-f70.pddl	23	5	4	3	3
p41-s81-n3-l4-f30.pddl	10	4	4	4	4
p42-s82-n3-l4-f50.pddl	30	4	2	2	2
p43-s83-n3-l4-f70.pddl	20	5	4	4	4
p44-s89-n4-l2-f30.pddl	19	5	5	5	5
p45-s94-n4-l3-f50.pddl	20	6	5	4	4
p47-s98-n5-l2-f50.pddl	27	7	5	4	4
p50-s107-n6-l2-f70.pddl	23	8	7	6	6

$h(s_0)$-value-*psr-small*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	3	3	3	3
p02-s5-n1-l3-f30.pddl	11	4	4	4	4
p03-s7-n1-l3-f70.pddl	11	4	4	4	4
p04-s8-n1-l4-f10.pddl	10	4	4	4	4
p05-s9-n1-l4-f30.pddl	11	4	4	4	4
p06-s10-n1-l4-f50.pddl	8	3	3	3	3
p07-s11-n1-l4-f70.pddl	11	4	4	4	4
p08-s12-n1-l5-f10.pddl	8	3	3	3	3
p09-s13-n1-l5-f30.pddl	8	3	3	3	3
p10-s17-n2-l2-f30.pddl	7	5	5	5	5
p11-s18-n2-l2-f50.pddl	19	7	6	6	6
p12-s21-n2-l3-f30.pddl	16	6	6	6	6
p13-s22-n2-l3-f50.pddl	15	7	7	7	7
p14-s23-n2-l3-f70.pddl	9	4	4	4	4
p15-s24-n2-l4-f10.pddl	10	4	4	4	4
p16-s29-n2-l5-f30.pddl	25	7	5	5	5
p17-s30-n2-l5-f50.pddl	9	4	4	4	4
p18-s31-n2-l5-f70.pddl	12	5	5	5	5
p19-s33-n3-l2-f30.pddl	25	7	5	5	5
p20-s34-n3-l2-f50.pddl	17	7	7	7	7
p21-s35-n3-l2-f70.pddl	10	5	5	5	5
p22-s37-n3-l3-f30.pddl	33	12	6	6	6

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p23-s38-n3-l3-f50.pddl	12	6	6	6	6
p24-s39-n3-l3-f70.pddl	10	5	5	5	5
p26-s41-n3-l4-f30.pddl	17	7	7	7	7
p27-s42-n3-l4-f50.pddl	21	8	7	7	7
p28-s43-n3-l4-f70.pddl	14	6	6	6	6
p29-s45-n3-l5-f30.pddl	21	9	7	7	7
p30-s46-n3-l5-f50.pddl	22	8	7	7	7
p32-s50-n4-l2-f50.pddl	24	10	8	8	8
p33-s51-n4-l2-f70.pddl	21	8	5	5	5
p34-s55-n4-l3-f70.pddl	21	9	8	8	8
p38-s78-n3-l3-f50.pddl	13	7	7	7	7
p39-s79-n3-l3-f70.pddl	23	8	7	7	7
p41-s81-n3-l4-f30.pddl	10	5	5	5	5
p42-s82-n3-l4-f50.pddl	30	8	5	5	5
p43-s83-n3-l4-f70.pddl	20	9	8	8	8
p44-s89-n4-l2-f30.pddl	19	10	10	8	8
p45-s94-n4-l3-f50.pddl	20	9	8	8	8
p47-s98-n5-l2-f50.pddl	27	11	7	7	7
p50-s107-n6-l2-f70.pddl	23	11	10	10	10

$h(s_0)$-value-*rovers*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	6	6	6	6
p02.pddl	8	6	6	6	6
p03.pddl	11	6	6	6	6
p04.pddl	8	6	6	6	6
p05.pddl	22	11	11	11	11

$h(s_0)$-value-*rovers*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	9	9	9	9
p02.pddl	8	7	9	7	7
p03.pddl	11	12	9	9	9

	8	9	8	8	8
p04.pddl	8	9	8	8	8
p05.pddl	22	18	18	17	17

$h(s_0)$-value-*rovers*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	6	6	6	6
p02.pddl	8	6	6	6	6
p03.pddl	11	6	6	6	6
p04.pddl	8	6	6	6	6
p05.pddl	22	11	11	11	11

$h(s_0)$-value-*rovers*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	9	9	9	9
p02.pddl	8	7	9	7	7
p03.pddl	11	12	9	9	9
p04.pddl	8	9	8	8	8
p05.pddl	22	18	18	17	17

$h(s_0)$-value-*satellite*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	7	5	5	5
p02-pfile2.pddl	13	11	9	7	7
p03-pfile3.pddl	11	5	5	5	5
p04-pfile4.pddl	17	11	14	9	9

$h(s_0)$-value-*satellite*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	9	7	7	7
p02-pfile2.pddl	13	13	11	10	10
p03-pfile3.pddl	11	10	9	8	8
p04-pfile4.pddl	17	19	15	12	12

$h(s_0)$-value-*satellite*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	7	5	5	5
p02-pfile2.pddl	13	11	9	7	7
p03-pfile3.pddl	11	5	5	5	5
p04-pfile4.pddl	17	11	14	9	9

$h(s_0)$-value-*satellite*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	9	7	7	7
p02-pfile2.pddl	13	13	11	10	10
p03-pfile3.pddl	11	10	9	8	8
p04-pfile4.pddl	17	19	15	12	12

$h(s_0)$-value-*scanalyzer-08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18	30	21	18	18
p02.pddl	22	30	20	18	18
p03.pddl	26	30	19	18	18
p22.pddl	13	15	16	12	12
p23.pddl	13	15	16	12	12
p24.pddl	13	15	16	12	12

$h(s_0)$-value-*scanalyzer-08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18	30	18	18	18
p02.pddl	22	30	22	18	20
p03.pddl	26	30	23	18	22
p22.pddl	13	15	22	12	12
p23.pddl	13	15	22	12	12
p24.pddl	13	15	22	12	12

$h(s_0)$-value-*scanalyzer-08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	10	6	6	6
p02.pddl	10	13	8	8	8
p03.pddl	14	14	10	10	10
p22.pddl	5	5	4	4	4
p23.pddl	5	5	4	4	4
p24.pddl	5	5	4	4	4

$h(s_0)$-value-*scanalyzer-08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	10	6	6	6
p02.pddl	10	13	10	8	8
p03.pddl	14	14	10	10	10
p22.pddl	5	5	4	4	4
p23.pddl	5	5	4	4	4
p24.pddl	5	5	4	4	4

$h(s_0)$-value-*scanalyzer-opt11-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13	15	16	12	12
p02.pddl	22	30	20	18	18
p03.pddl	26	30	19	18	18

$h(s_0)$-value-*scanalyzer-opt11-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13	15	22	12	12
p02.pddl	22	30	22	18	20
p03.pddl	26	30	23	18	22

$h(s_0)$-value-*scanalyzer-opt11-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	4	4	4
p02.pddl	10	13	8	8	8
p03.pddl	14	14	10	10	10

$h(s_0)$-value-*scanalyzer-opt11-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	4	4	4
p02.pddl	10	13	10	8	8
p03.pddl	14	14	10	10	10

$h(s_0)$-value-*storage*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	3	3	2	2	2
p02.pddl	3	2	2	2	2
p03.pddl	3	2	2	2	2
p04.pddl	8	4	4	4	4
p05.pddl	8	4	4	4	4
p06.pddl	8	4	4	4	4
p07.pddl	14	6	6	6	6

$h(s_0)$-value-*storage*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	3	3	3	3	3
p02.pddl	3	3	3	3	3
p03.pddl	3	3	2	2	2
p04.pddl	8	8	6	6	6
p05.pddl	8	8	6	6	6
p06.pddl	8	4	4	4	4
p07.pddl	14	18	11	10	10

$h(s_0)$-value-*storage*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	3	3	2	2	2
p02.pddl	3	2	2	2	2
p03.pddl	3	2	2	2	2
p04.pddl	8	4	4	4	4
p05.pddl	8	4	4	4	4
p06.pddl	8	4	4	4	4
p07.pddl	14	6	6	6	6

$h(s_0)$-value-*storage*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	3	3	3	3	3
p02.pddl	3	3	3	3	3
p03.pddl	3	3	2	2	2
p04.pddl	8	8	6	6	6
p05.pddl	8	8	6	6	6
p06.pddl	8	4	4	4	4
p07.pddl	14	18	11	10	10

$h(s_0)$-value-*termes-opt18-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	8	6	6	6
p02.pddl	54	12	12	12	12
p11.pddl	66	11	11	11	11
p12.pddl	46	11	11	11	11
p17.pddl	116	18	18	18	18
p18.pddl	76	17	17	17	17

$h(s_0)$-value-*termes-opt18-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	13	8	8	8
p02.pddl	54	23	19	19	19
p11.pddl	66	27	20	20	20
p12.pddl	46	18	16	15	16

| p17.pddl | 116 | 30 | 30 | 30 | 30 |
| p18.pddl | 76 | 24 | 23 | 23 | 23 |

$h(s_0)$-value-*termes-opt18-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	8	6	6	6
p02.pddl	54	12	12	12	12
p11.pddl	66	11	11	11	11
p12.pddl	46	11	11	11	11
p17.pddl	116	18	18	18	18
p18.pddl	76	17	17	17	17

$h(s_0)$-value-*termes-opt18-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	13	8	8	8
p02.pddl	54	23	19	19	19
p11.pddl	66	27	20	20	20
p12.pddl	46	18	16	15	16
p17.pddl	116	30	30	30	30
p18.pddl	76	24	23	23	23

$h(s_0)$-value-*tpp*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	2	2	2	2
p02.pddl	8	4	4	4	4
p03.pddl	11	6	6	6	6
p04.pddl	14	8	8	8	8

$h(s_0)$-value-*tpp*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	8	8	8	8	8

p03.pddl	11	11	12	11	11
p04.pddl	14	14	15	14	14

$h(s_0)$-value-*tpp*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	2	2	2	2
p02.pddl	8	4	4	4	4
p03.pddl	11	6	6	6	6
p04.pddl	14	8	8	8	8

$h(s_0)$-value-*tpp*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	8	8	8	8	8
p03.pddl	11	11	12	11	11
p04.pddl	14	14	15	14	14

$h(s_0)$-value-*transport-opt08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	54	4	4	4	4
p02.pddl	131	6	6	6	6
p03.pddl	250	8	8	8	8
p11.pddl	456	4	4	4	4
p13.pddl	550	8	8	8	8
p21.pddl	478	4	4	4	4
p23.pddl	630	8	8	8	8

$h(s_0)$-value-*transport-opt08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	54	76	60	54	54
p02.pddl	131	139	131	131	131
p03.pddl	250	223	216	216	216

p11.pddl	456	456	456	456	456
p13.pddl	550	543	533	533	533
p21.pddl	478	478	478	478	478
p23.pddl	630	677	630	630	630

$h(s_0)$-value-*transport-opt08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	4	4	4	4
p02.pddl	12	6	6	6	6
p03.pddl	17	8	8	8	8
p11.pddl	9	4	4	4	4
p13.pddl	21	8	8	8	8
p21.pddl	7	4	4	4	4
p23.pddl	17	8	8	8	8

$h(s_0)$-value-*transport-opt08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	12	12	12	12	12
p03.pddl	17	15	15	15	15
p11.pddl	9	9	9	9	9
p13.pddl	21	20	20	20	20
p21.pddl	7	7	7	7	7
p23.pddl	17	17	17	17	17

$h(s_0)$-value-*transport-opt11-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	630	8	8	8	8
p02.pddl	250	8	8	8	8
p04.pddl	550	8	8	8	8

$h(s_0)$-value-*transport-opt11-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	630	677	630	630	630
p02.pddl	250	223	216	216	216
p04.pddl	550	543	533	533	533

$h(s_0)$-value-*transport-opt11-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	8	8	8	8
p02.pddl	17	8	8	8	8
p04.pddl	21	8	8	8	8

$h(s_0)$-value-*transport-opt11-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	17	17	17	17
p02.pddl	17	15	15	15	15
p04.pddl	21	20	20	20	20

$h(s_0)$-value-*transport-opt14-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	967	8	8	8	8

$h(s_0)$-value-*transport-opt14-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	967	630	617	613	613

$h(s_0)$-value-*transport-opt14-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	25	8	8	8	8

$h(s_0)$-value-*transport-opt14-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p07.pddl	25	20	20	20	20

$h(s_0)$-value-*trucks-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13	11	10	9	9
p02.pddl	17	17	14	14	14
p03.pddl	20	15	12	10	10

$h(s_0)$-value-*trucks-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13	15	12	11	11
p02.pddl	17	20	17	15	15
p03.pddl	20	15	13	11	11

$h(s_0)$-value-*trucks-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13	11	10	9	9
p02.pddl	17	17	14	14	14
p03.pddl	20	15	12	10	10

$h(s_0)$-value-*trucks-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13	15	12	11	11
p02.pddl	17	20	17	15	15
p03.pddl	20	15	13	11	11

$h(s_0)$-value-*visitall-opt11-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	4	4	4	4

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	7	7	7	7
problem05-half.pddl	18	14	14	14	14
problem06-half.pddl	23	15	15	15	15

$h(s_0)$-value-*visitall-opt11-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	6	6	6	6
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	9	9	9	9
problem05-half.pddl	18	14	14	14	14
problem06-half.pddl	23	16	16	16	16

$h(s_0)$-value-*visitall-opt11-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	4	4	4	4
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	7	7	7	7
problem05-half.pddl	18	14	14	14	14
problem06-half.pddl	23	15	15	15	15

$h(s_0)$-value-*visitall-opt11-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	6	6	6	6

problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	9	9	9	9
problem05-half.pddl	18	14	14	14	14
problem06-half.pddl	23	16	16	16	16

$h(s_0)$-value-*visitall-opt14-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21	17	17	17	17
p-05-6.pddl	25	17	17	17	17

$h(s_0)$-value-*visitall-opt14-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21	17	17	17	17
p-05-6.pddl	25	17	17	17	17

$h(s_0)$-value-*visitall-opt14-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21	17	17	17	17
p-05-6.pddl	25	17	17	17	17

$h(s_0)$-value-*visitall-opt14-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21	17	17	17	17
p-05-6.pddl	25	17	17	17	17

$h(s_0)$-value-*woodworking-opt08-strips*-Normal-*sys2*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	95	135	95	85	85

$h(s_0)$-value-*woodworking-opt08-strips*-Normal-*sys4*

$h(s_0)$-value	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

p21.pddl	95	135	95	95	95

$h(s_0)$-value-*woodworking-opt08-strips*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	5	5	5	5	5

$h(s_0)$-value-*woodworking-opt08-strips*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	5	5	5	5	5

$h(s_0)$-value-*zenotravel*-Normal-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	6	5	5	5	5
p03.pddl	6	4	4	4	4
p04.pddl	8	5	5	5	5
p05.pddl	11	8	12	8	8
p06.pddl	11	8	12	8	8
p07.pddl	15	8	12	8	8

$h(s_0)$-value-*zenotravel*-Normal-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	6	6	6	6	6
p03.pddl	6	7	6	6	6
p04.pddl	8	9	9	8	8
p05.pddl	11	15	12	11	11
p06.pddl	11	14	12	11	11
p07.pddl	15	19	14	12	12

$h(s_0)$-value-*zenotravel*-Unitary-*sys2*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p01.pddl	1	1	1	1	1
p02.pddl	6	5	5	5	5
p03.pddl	6	4	4	4	4
p04.pddl	8	5	5	5	5
p05.pddl	11	8	12	8	8
p06.pddl	11	8	12	8	8
p07.pddl	15	8	12	8	8

$h(s_0)$-value-*zenotravel*-Unitary-*sys4*

$h(s_0)$-value	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	6	6	6	6	6
p03.pddl	6	7	6	6	6
p04.pddl	8	9	9	8	8
p05.pddl	11	15	12	11	11
p06.pddl	11	14	12	11	11
p07.pddl	15	19	14	12	12

π-*blocks*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	10	10	10	10
probBLOCKS-4-2.pddl	6	6	6	6	6
probBLOCKS-5-0.pddl	12	12	12	12	12
probBLOCKS-5-1.pddl	10	10	10	10	10
probBLOCKS-5-2.pddl	16	20	24	24	24
probBLOCKS-6-0.pddl	12	32	32	32	32
probBLOCKS-6-1.pddl	10	10	10	10	10
probBLOCKS-6-2.pddl	20	26	32	32	32

π-*blocks*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6

π	h^*				
probBLOCKS-4-1.pddl	10	10	10	10	10
probBLOCKS-4-2.pddl	6	6	6	6	6
probBLOCKS-5-0.pddl	12	12	12	12	12
probBLOCKS-5-1.pddl	10	10	10	10	10
probBLOCKS-5-2.pddl	16	20	24	24	24
probBLOCKS-6-0.pddl	12	32	28	28	28
probBLOCKS-6-1.pddl	10	10	10	10	10
probBLOCKS-6-2.pddl	20	24	26	32	32

π-*blocks*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	10	10	10	10
probBLOCKS-4-2.pddl	6	6	6	6	6
probBLOCKS-5-0.pddl	12	12	12	12	12
probBLOCKS-5-1.pddl	10	10	10	10	10
probBLOCKS-5-2.pddl	16	20	24	24	24
probBLOCKS-6-0.pddl	12	32	32	32	32
probBLOCKS-6-1.pddl	10	10	10	10	10
probBLOCKS-6-2.pddl	20	26	32	32	32

π-*blocks*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6	6	6	6	6
probBLOCKS-4-1.pddl	10	10	10	10	10
probBLOCKS-4-2.pddl	6	6	6	6	6
probBLOCKS-5-0.pddl	12	12	12	12	12
probBLOCKS-5-1.pddl	10	10	10	10	10
probBLOCKS-5-2.pddl	16	20	24	24	24
probBLOCKS-6-0.pddl	12	32	28	28	28
probBLOCKS-6-1.pddl	10	10	10	10	10
probBLOCKS-6-2.pddl	20	24	26	32	32

π-*depot*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	10	10	10	10

π-*depot*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	11	11	11	11

π-*depot*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	10	10	10	10

π-*depot*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10	11	11	11	11

π-*driverlog*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	8	8	8	8
p02.pddl	19	19	20	20	20
p03.pddl	12	13	12	13	13
p04.pddl	16	19	19	19	19
p05.pddl	18	23	23	23	23

π-*driverlog*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	19	19	21	23	23
p03.pddl	12	12	12	12	12
p04.pddl	16	21	17	17	17
p05.pddl	18	19	21	21	21

π-*driverlog*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	8	8	8	8
p02.pddl	19	19	20	20	20
p03.pddl	12	13	12	13	13
p04.pddl	16	19	19	19	19
p05.pddl	18	23	23	23	23

π-*driverlog*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	7	7	7	7	7
p02.pddl	19	19	21	23	23
p03.pddl	12	12	12	12	12
p04.pddl	16	21	17	17	17
p05.pddl	18	19	21	21	21

π-*elevators-opt08-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	18	30	23	24	24
p11.pddl	17	23	23	23	23

π-*elevators-opt08-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	18	20	21	20	20
p11.pddl	17	19	22	19	19

π-*elevators-opt08-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	18	18	18	18	18
p11.pddl	17	18	19	19	19

π-*elevators-opt08-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	18	19	18	19	19
p11.pddl	17	18	17	17	17

π-*elevators-opt11-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	23	23	23	23
p04.pddl	18	30	23	24	24

π-*elevators-opt11-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	19	22	19	19
p04.pddl	18	20	21	20	20

π-*elevators-opt11-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	18	19	19	19
p04.pddl	18	18	18	18	18

π-*elevators-opt11-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	18	17	17	17
p04.pddl	18	19	18	19	19

π-*ged-opt14-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

π-*ged-opt14-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

π-*ged-opt14-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

π-*ged-opt14-strips*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1	1	1	1	1
d-1-4.pddl	1	1	1	1	1
d-2-1.pddl	1	1	1	1	1

π-*gripper*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	15	15	15	15
prob02.pddl	17	23	23	23	23
prob03.pddl	23	31	31	31	31
prob04.pddl	29	39	39	39	39
prob05.pddl	35	47	47	47	47

π-*gripper*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	13	13	13	13
prob02.pddl	17	21	21	21	21
prob03.pddl	23	29	29	29	29
prob04.pddl	29	37	37	37	37

π	h^*			
prob05.pddl	35	45	45	45	45

π-*gripper*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	15	15	15	15
prob02.pddl	17	23	23	23	23
prob03.pddl	23	31	31	31	31
prob04.pddl	29	39	39	39	39
prob05.pddl	35	47	47	47	47

π-*gripper*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11	13	13	13	13
prob02.pddl	17	21	21	21	21
prob03.pddl	23	29	29	29	29
prob04.pddl	29	37	37	37	37
prob05.pddl	35	45	45	45	45

π-*hiking-opt14-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11	11	11	11	11
ptesting-1-2-4.pddl	17	19	18	18	18
ptesting-1-2-5.pddl	25	29	27	27	27
ptesting-1-2-7.pddl	38	46	42	42	42
ptesting-1-2-8.pddl	45	55	50	50	50
ptesting-2-2-3.pddl	10	10	12	12	12
ptesting-2-2-4.pddl	16	17	21	21	21
ptesting-2-2-5.pddl	22	24	30	30	30
ptesting-2-2-6.pddl	30	34	34	34	34
ptesting-2-3-4.pddl	17	19	19	19	19
ptesting-2-3-5.pddl	24	27	27	27	27
ptesting-2-4-3.pddl	10	10	12	12	12
ptesting-2-4-4.pddl	17	19	19	19	19

π-*hiking-opt14-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11	11	11	11	11
ptesting-1-2-4.pddl	17	19	19	19	19
ptesting-1-2-5.pddl	25	29	29	29	29
ptesting-1-2-7.pddl	38	46	46	46	46
ptesting-1-2-8.pddl	45	55	55	55	55
ptesting-2-2-3.pddl	10	13	13	13	13
ptesting-2-2-4.pddl	16	17	20	19	19
ptesting-2-2-5.pddl	22	24	26	26	26
ptesting-2-2-6.pddl	30	34	33	33	33
ptesting-2-3-4.pddl	17	19	19	20	20
ptesting-2-3-5.pddl	24	27	31	28	28
ptesting-2-4-3.pddl	10	13	15	12	12
ptesting-2-4-4.pddl	17	19	19	20	20

π-*hiking-opt14-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11	11	11	11	11
ptesting-1-2-4.pddl	17	19	18	18	18
ptesting-1-2-5.pddl	25	29	27	27	27
ptesting-1-2-7.pddl	38	46	42	42	42
ptesting-1-2-8.pddl	45	55	50	50	50
ptesting-2-2-3.pddl	10	10	12	12	12
ptesting-2-2-4.pddl	16	17	21	21	21
ptesting-2-2-5.pddl	22	24	30	30	30
ptesting-2-2-6.pddl	30	34	34	34	34
ptesting-2-3-4.pddl	17	19	19	19	19
ptesting-2-3-5.pddl	24	27	27	27	27
ptesting-2-4-3.pddl	10	10	12	12	12
ptesting-2-4-4.pddl	17	19	19	19	19

π-*hiking-opt14-strips*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11	11	11	11	11
ptesting-1-2-4.pddl	17	19	19	19	19
ptesting-1-2-5.pddl	25	29	29	29	29
ptesting-1-2-7.pddl	38	46	46	46	46
ptesting-1-2-8.pddl	45	55	55	55	55
ptesting-2-2-3.pddl	10	13	13	13	13
ptesting-2-2-4.pddl	16	17	20	19	19
ptesting-2-2-5.pddl	22	24	26	26	26
ptesting-2-2-6.pddl	30	34	33	33	33
ptesting-2-3-4.pddl	17	19	19	20	20
ptesting-2-3-5.pddl	24	27	31	28	28
ptesting-2-4-3.pddl	10	13	15	12	12
ptesting-2-4-4.pddl	17	19	19	20	20

π-*logistics00*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	20	20	20
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	16	16	16
probLOGISTICS-5-0.pddl	27	27	30	28	28
probLOGISTICS-5-1.pddl	17	17	17	17	17
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	25	25	25
probLOGISTICS-6-1.pddl	14	14	14	14	14
probLOGISTICS-6-2.pddl	25	25	27	25	25
probLOGISTICS-6-9.pddl	24	24	24	24	24

π-*logistics00*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	20	20	20
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	15	15	15

probLOGISTICS-5-0.pddl	27	27	29	27	27
probLOGISTICS-5-1.pddl	17	17	17	17	17
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	27	25	25
probLOGISTICS-6-1.pddl	14	14	14	14	14
probLOGISTICS-6-2.pddl	25	25	25	25	25
probLOGISTICS-6-9.pddl	24	24	24	24	24

π-*logistics00*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	20	20	20
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	16	16	16
probLOGISTICS-5-0.pddl	27	27	30	28	28
probLOGISTICS-5-1.pddl	17	17	17	17	17
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	25	25	25
probLOGISTICS-6-1.pddl	14	14	14	14	14
probLOGISTICS-6-2.pddl	25	25	27	25	25
probLOGISTICS-6-9.pddl	24	24	24	24	24

π-*logistics00*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20	20	20	20	20
probLOGISTICS-4-1.pddl	19	19	19	19	19
probLOGISTICS-4-2.pddl	15	15	15	15	15
probLOGISTICS-5-0.pddl	27	27	29	27	27
probLOGISTICS-5-1.pddl	17	17	17	17	17
probLOGISTICS-5-2.pddl	8	8	8	8	8
probLOGISTICS-6-0.pddl	25	25	27	25	25
probLOGISTICS-6-1.pddl	14	14	14	14	14
probLOGISTICS-6-2.pddl	25	25	25	25	25
probLOGISTICS-6-9.pddl	24	24	24	24	24

π-*logistics98*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	13	13	13	13
prob32.pddl	20	21	21	21	21

π-*logistics98*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	13	13	13	13
prob32.pddl	20	20	20	20	20

π-*logistics98*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	13	13	13	13
prob32.pddl	20	21	21	21	21

π-*logistics98*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13	13	13	13	13
prob32.pddl	20	20	20	20	20

π-*miconic*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4	4	4	4	4
s1-1.pddl	3	3	3	3	3
s1-2.pddl	4	4	4	4	4
s1-3.pddl	4	4	4	4	4
s1-4.pddl	4	4	4	4	4
s10-0.pddl	33	39	35	35	35
s10-1.pddl	32	37	35	35	35
s10-2.pddl	32	37	35	38	38
s10-3.pddl	34	39	35	37	37
s10-4.pddl	33	37	34	35	35

s11-0.pddl	37	43	41	42	42
s11-1.pddl	34	43	36	40	40
s11-2.pddl	38	43	42	43	43
s11-3.pddl	38	42	39	41	41
s11-4.pddl	35	41	40	40	40
s2-0.pddl	7	8	7	7	7
s2-1.pddl	7	7	7	7	7
s2-2.pddl	7	7	7	7	7
s2-3.pddl	7	8	8	8	8
s2-4.pddl	7	8	8	8	8
s3-0.pddl	10	12	12	12	12
s3-1.pddl	11	11	11	11	11
s3-2.pddl	10	12	12	12	12
s3-3.pddl	10	10	10	10	10
s3-4.pddl	10	11	11	11	11
s4-0.pddl	14	15	14	15	15
s4-1.pddl	13	13	13	14	14
s4-2.pddl	15	16	15	15	15
s4-3.pddl	15	16	16	16	16
s4-4.pddl	15	16	16	16	16
s5-0.pddl	17	19	18	19	19
s5-1.pddl	17	19	18	18	18
s5-2.pddl	15	18	16	18	18
s5-3.pddl	17	20	18	18	18
s5-4.pddl	18	19	19	20	20
s6-0.pddl	19	22	24	23	23
s6-1.pddl	19	22	19	21	21
s6-2.pddl	20	24	22	23	23
s6-3.pddl	20	22	21	23	23
s6-4.pddl	21	23	21	22	22
s7-0.pddl	23	27	24	24	24
s7-1.pddl	24	27	26	27	27
s7-2.pddl	22	25	22	25	25
s7-3.pddl	22	25	24	26	26

π	h^*			
s7-4.pddl	25	26	27	27	27
s8-0.pddl	27	30	30	32	32
s8-1.pddl	27	29	29	29	29
s8-2.pddl	26	30	31	31	31
s8-3.pddl	28	28	29	29	29
s8-4.pddl	27	31	29	31	31
s9-0.pddl	31	35	33	36	36
s9-1.pddl	30	34	33	34	34
s9-2.pddl	30	34	33	34	34
s9-3.pddl	32	34	32	32	32
s9-4.pddl	28	33	31	31	31

π-*miconic*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	4	4	4	4	4
s1-1.pddl	3	3	3	3	3
s1-2.pddl	4	4	4	4	4
s1-3.pddl	4	4	4	4	4
s1-4.pddl	4	4	4	4	4
s10-0.pddl	33	36	35	35	35
s10-1.pddl	32	35	35	35	35
s10-2.pddl	32	36	36	38	38
s10-3.pddl	34	36	35	36	36
s10-4.pddl	33	36	34	35	35
s11-0.pddl	37	41	40	42	42
s11-1.pddl	34	39	37	37	37
s11-2.pddl	38	40	42	42	42
s11-3.pddl	38	40	40	41	41
s11-4.pddl	35	39	40	40	40
s2-0.pddl	7	7	7	7	7
s2-1.pddl	7	7	7	7	7
s2-2.pddl	7	7	7	7	7
s2-3.pddl	7	7	7	7	7
s2-4.pddl	7	8	7	7	7

s3-0.pddl	10	12	11	11	11
s3-1.pddl	11	11	11	11	11
s3-2.pddl	10	12	10	11	11
s3-3.pddl	10	10	10	10	10
s3-4.pddl	10	11	10	10	10
s4-0.pddl	14	14	14	15	15
s4-1.pddl	13	13	13	14	14
s4-2.pddl	15	15	15	15	15
s4-3.pddl	15	16	15	16	16
s4-4.pddl	15	16	16	16	16
s5-0.pddl	17	18	17	19	19
s5-1.pddl	17	18	18	18	18
s5-2.pddl	15	16	15	16	16
s5-3.pddl	17	18	17	17	17
s5-4.pddl	18	19	18	20	20
s6-0.pddl	19	21	21	20	20
s6-1.pddl	19	21	20	21	21
s6-2.pddl	20	23	21	22	22
s6-3.pddl	20	20	21	23	23
s6-4.pddl	21	21	21	22	22
s7-0.pddl	23	25	24	24	24
s7-1.pddl	24	27	26	27	27
s7-2.pddl	22	24	22	24	24
s7-3.pddl	22	24	24	25	25
s7-4.pddl	25	26	26	25	25
s8-0.pddl	27	29	29	31	31
s8-1.pddl	27	29	29	28	28
s8-2.pddl	26	29	30	31	31
s8-3.pddl	28	29	29	29	29
s8-4.pddl	27	29	29	31	31
s9-0.pddl	31	33	33	36	36
s9-1.pddl	30	32	33	33	33
s9-2.pddl	30	33	33	34	34
s9-3.pddl	32	32	32	32	32

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s9-4.pddl	28	31	29	30	30

π-*miconic*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	4	4	4	4	4
s1-1.pddl	3	3	3	3	3
s1-2.pddl	4	4	4	4	4
s1-3.pddl	4	4	4	4	4
s1-4.pddl	4	4	4	4	4
s10-0.pddl	33	39	35	35	35
s10-1.pddl	32	37	35	35	35
s10-2.pddl	32	37	35	38	38
s10-3.pddl	34	39	35	37	37
s10-4.pddl	33	37	34	35	35
s11-0.pddl	37	43	41	42	42
s11-1.pddl	34	43	36	40	40
s11-2.pddl	38	43	42	43	43
s11-3.pddl	38	42	39	41	41
s11-4.pddl	35	41	40	40	40
s2-0.pddl	7	8	7	7	7
s2-1.pddl	7	7	7	7	7
s2-2.pddl	7	7	7	7	7
s2-3.pddl	7	8	8	8	8
s2-4.pddl	7	8	8	8	8
s3-0.pddl	10	12	12	12	12
s3-1.pddl	11	11	11	11	11
s3-2.pddl	10	12	12	12	12
s3-3.pddl	10	10	10	10	10
s3-4.pddl	10	11	11	11	11
s4-0.pddl	14	15	14	15	15
s4-1.pddl	13	13	13	14	14
s4-2.pddl	15	16	15	15	15
s4-3.pddl	15	16	16	16	16
s4-4.pddl	15	16	16	16	16

π	h^*			
s5-0.pddl	17	19	18	19	19
s5-1.pddl	17	19	18	18	18
s5-2.pddl	15	18	16	18	18
s5-3.pddl	17	20	18	18	18
s5-4.pddl	18	19	19	20	20
s6-0.pddl	19	22	24	23	23
s6-1.pddl	19	22	19	21	21
s6-2.pddl	20	24	22	23	23
s6-3.pddl	20	22	21	23	23
s6-4.pddl	21	23	21	22	22
s7-0.pddl	23	27	24	24	24
s7-1.pddl	24	27	26	27	27
s7-2.pddl	22	25	22	25	25
s7-3.pddl	22	25	24	26	26
s7-4.pddl	25	26	27	27	27
s8-0.pddl	27	30	30	32	32
s8-1.pddl	27	29	29	29	29
s8-2.pddl	26	30	31	31	31
s8-3.pddl	28	28	29	29	29
s8-4.pddl	27	31	29	31	31
s9-0.pddl	31	35	33	36	36
s9-1.pddl	30	34	33	34	34
s9-2.pddl	30	34	33	34	34
s9-3.pddl	32	34	32	32	32
s9-4.pddl	28	33	31	31	31

π-*miconic*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	4	4	4	4	4
s1-1.pddl	3	3	3	3	3
s1-2.pddl	4	4	4	4	4
s1-3.pddl	4	4	4	4	4
s1-4.pddl	4	4	4	4	4
s10-0.pddl	33	36	35	35	35

s10-1.pddl	32	35	35	35	35
s10-2.pddl	32	36	36	38	38
s10-3.pddl	34	36	35	36	36
s10-4.pddl	33	36	34	35	35
s11-0.pddl	37	41	40	42	42
s11-1.pddl	34	39	37	37	37
s11-2.pddl	38	40	42	42	42
s11-3.pddl	38	40	40	41	41
s11-4.pddl	35	39	40	40	40
s2-0.pddl	7	7	7	7	7
s2-1.pddl	7	7	7	7	7
s2-2.pddl	7	7	7	7	7
s2-3.pddl	7	7	7	7	7
s2-4.pddl	7	8	7	7	7
s3-0.pddl	10	12	11	11	11
s3-1.pddl	11	11	11	11	11
s3-2.pddl	10	12	10	11	11
s3-3.pddl	10	10	10	10	10
s3-4.pddl	10	11	10	10	10
s4-0.pddl	14	14	14	15	15
s4-1.pddl	13	13	13	14	14
s4-2.pddl	15	15	15	15	15
s4-3.pddl	15	16	15	16	16
s4-4.pddl	15	16	16	16	16
s5-0.pddl	17	18	17	19	19
s5-1.pddl	17	18	18	18	18
s5-2.pddl	15	16	15	16	16
s5-3.pddl	17	18	17	17	17
s5-4.pddl	18	19	18	20	20
s6-0.pddl	19	21	21	20	20
s6-1.pddl	19	21	20	21	21
s6-2.pddl	20	23	21	22	22
s6-3.pddl	20	20	21	23	23
s6-4.pddl	21	21	21	22	22

s7-0.pddl	23	25	24	24	24
s7-1.pddl	24	27	26	27	27
s7-2.pddl	22	24	22	24	24
s7-3.pddl	22	24	24	25	25
s7-4.pddl	25	26	26	25	25
s8-0.pddl	27	29	29	31	31
s8-1.pddl	27	29	29	28	28
s8-2.pddl	26	29	30	31	31
s8-3.pddl	28	29	29	29	29
s8-4.pddl	27	29	29	31	31
s9-0.pddl	31	33	33	36	36
s9-1.pddl	30	32	33	33	33
s9-2.pddl	30	33	33	34	34
s9-3.pddl	32	32	32	32	32
s9-4.pddl	28	31	29	30	30

π-*movie*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7

π	h^*				
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

π-*movie*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

π-*movie*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob19.pddl	7	7	7	7	7
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

π-*movie*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	7	7	7	7	7
prob02.pddl	7	7	7	7	7
prob03.pddl	7	7	7	7	7
prob04.pddl	7	7	7	7	7
prob05.pddl	7	7	7	7	7
prob06.pddl	7	7	7	7	7
prob07.pddl	7	7	7	7	7
prob08.pddl	7	7	7	7	7
prob09.pddl	7	7	7	7	7
prob10.pddl	7	7	7	7	7
prob11.pddl	7	7	7	7	7
prob12.pddl	7	7	7	7	7
prob13.pddl	7	7	7	7	7
prob14.pddl	7	7	7	7	7
prob15.pddl	7	7	7	7	7
prob16.pddl	7	7	7	7	7
prob17.pddl	7	7	7	7	7
prob18.pddl	7	7	7	7	7
prob19.pddl	7	7	7	7	7

π	h^*				
prob20.pddl	7	7	7	7	7
prob21.pddl	7	7	7	7	7
prob22.pddl	7	7	7	7	7
prob23.pddl	7	7	7	7	7
prob24.pddl	7	7	7	7	7
prob25.pddl	7	7	7	7	7
prob26.pddl	7	7	7	7	7
prob27.pddl	7	7	7	7	7
prob28.pddl	7	7	7	7	7
prob29.pddl	7	7	7	7	7
prob30.pddl	7	7	7	7	7

π-*mprime*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	4	4	4	4

π-*mprime*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	4	4	4	4

π-*mprime*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	4	4	4	4

π-*mprime*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4	4	4	4	4

π-*mystery*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	4	4	4	4

π-*mystery*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	4	4	4	4

π-*mystery*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	4	4	4	4

π-*mystery*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5	5	5	5	5
prob25.pddl	4	4	4	4	4

π-*nomystery-opt11-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	11	11	11	11
p02.pddl	14	14	14	14	14
p03.pddl	15	15	19	15	15
p04.pddl	19	19	20	19	19
p11.pddl	12	12	12	12	12
p12.pddl	14	14	14	14	14
p13.pddl	15	15	15	15	15
p14.pddl	19	20	20	20	20

π-*nomystery-opt11-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11	11	11	11	11
p02.pddl	14	14	14	14	14
p03.pddl	15	15	15	15	15
p04.pddl	19	19	20	19	19

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p11.pddl	12	12	13	12	12
p12.pddl	14	14	14	14	14
p13.pddl	15	15	15	15	15
p14.pddl	19	20	20	20	20

π-*nomystery-opt11-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	11	11	11	11
p02.pddl	14	14	14	14	14
p03.pddl	15	15	19	15	15
p04.pddl	19	19	20	19	19
p11.pddl	12	12	12	12	12
p12.pddl	14	14	14	14	14
p13.pddl	15	15	15	15	15
p14.pddl	19	20	20	20	20

π-*nomystery-opt11-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	11	11	11	11
p02.pddl	14	14	14	14	14
p03.pddl	15	15	15	15	15
p04.pddl	19	19	20	19	19
p11.pddl	12	12	13	12	12
p12.pddl	14	14	14	14	14
p13.pddl	15	15	15	15	15
p14.pddl	19	20	20	20	20

π-*openstacks-opt08-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	17	17	17	17
p02.pddl	20	20	20	20	20
p03.pddl	23	23	23	23	23
p04.pddl	27	27	27	27	27

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p05.pddl	31	31	31	31	31

π-*openstacks-opt08-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	17	17	17	17
p02.pddl	20	20	20	20	20
p03.pddl	23	23	23	23	23
p04.pddl	27	27	27	27	27
p05.pddl	31	31	31	31	31

π-*openstacks-opt08-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	17	17	17	17
p02.pddl	20	20	20	20	20
p03.pddl	23	23	23	23	23
p04.pddl	27	27	27	27	27
p05.pddl	31	31	32	31	31

π-*openstacks-opt08-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	17	17	17	17	17
p02.pddl	20	20	20	20	20
p03.pddl	23	23	23	23	23
p04.pddl	27	27	27	27	27
p05.pddl	31	31	32	31	31

π-*openstacks-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	23	24	24	24	24
p02.pddl	23	24	24	24	24
p03.pddl	23	24	24	24	24
p04.pddl	23	24	24	24	24

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p05.pddl	23	24	24	24	24

π-*openstacks-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	23	25	25	25	25
p02.pddl	23	25	25	25	25
p03.pddl	23	25	25	25	25
p04.pddl	23	25	25	25	25
p05.pddl	23	25	25	25	25

π-*openstacks-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	23	24	24	24	24
p02.pddl	23	24	24	24	24
p03.pddl	23	24	24	24	24
p04.pddl	23	24	24	24	24
p05.pddl	23	24	24	24	24

π-*openstacks-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	23	25	25	25	25
p02.pddl	23	25	25	25	25
p03.pddl	23	25	25	25	25
p04.pddl	23	25	25	25	25
p05.pddl	23	25	25	25	25

π-*organic-synthesis-opt18-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	1	1	1	1	1
p03.pddl	2	2	2	2	2
p07.pddl	2	2	2	2	2

π-organic-synthesis-opt18-strips-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	1	1	1	1	1
p03.pddl	2	2	2	2	2
p07.pddl	2	2	2	2	2

π-organic-synthesis-opt18-strips-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	1	1	1	1	1
p03.pddl	2	2	2	2	2
p07.pddl	2	2	2	2	2

π-organic-synthesis-opt18-strips-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	1	1	1	1	1
p03.pddl	2	2	2	2	2
p07.pddl	2	2	2	2	2

π-parcprinter-08-strips-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	11	11	11	11
p11.pddl	9	9	9	9	9
p21.pddl	8	8	8	8	8

π-parcprinter-08-strips-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11	11	11	11	11
p11.pddl	9	9	9	9	9
p21.pddl	8	8	8	8	8

π-*parcprinter-08-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	8	8	8	8	8
p11.pddl	9	9	9	9	9
p21.pddl	8	8	8	8	8

π-*parcprinter-08-strips*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	8	8	8	8	8
p11.pddl	9	9	9	9	9
p21.pddl	8	8	8	8	8

π-*pegsol-08-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p05.pddl	11	11	11	11	11

π-*pegsol-08-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p05.pddl	11	11	11	11	11

π-*pegsol-08-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p05.pddl	11	12	13	12	12

π-*pegsol-08-strips*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p05.pddl	11	13	12	13	13

π-*psr-small*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	8	8	8	8
p02-s5-n1-l3-f30.pddl	11	11	11	11	11
p03-s7-n1-l3-f70.pddl	11	11	11	11	11
p04-s8-n1-l4-f10.pddl	10	10	10	10	10
p05-s9-n1-l4-f30.pddl	11	11	11	11	11
p06-s10-n1-l4-f50.pddl	8	8	8	8	8
p07-s11-n1-l4-f70.pddl	11	11	11	11	11
p08-s12-n1-l5-f10.pddl	8	8	8	8	8
p09-s13-n1-l5-f30.pddl	8	8	8	8	8
p10-s17-n2-l2-f30.pddl	7	7	7	7	7
p11-s18-n2-l2-f50.pddl	19	19	19	19	19
p12-s21-n2-l3-f30.pddl	16	16	16	16	16
p13-s22-n2-l3-f50.pddl	15	15	15	15	15
p14-s23-n2-l3-f70.pddl	9	9	9	9	9
p15-s24-n2-l4-f10.pddl	10	10	10	10	10
p16-s29-n2-l5-f30.pddl	25	25	25	25	25
p17-s30-n2-l5-f50.pddl	9	9	9	9	9
p18-s31-n2-l5-f70.pddl	12	12	12	12	12
p19-s33-n3-l2-f30.pddl	25	25	25	25	25
p20-s34-n3-l2-f50.pddl	17	17	17	17	17
p21-s35-n3-l2-f70.pddl	10	10	10	10	10
p22-s37-n3-l3-f30.pddl	33	38	33	33	33
p23-s38-n3-l3-f50.pddl	12	12	12	12	12
p24-s39-n3-l3-f70.pddl	10	10	10	10	10
p26-s41-n3-l4-f30.pddl	17	17	17	17	17
p27-s42-n3-l4-f50.pddl	21	21	21	21	21
p28-s43-n3-l4-f70.pddl	14	14	14	14	14
p29-s45-n3-l5-f30.pddl	21	21	21	21	21
p30-s46-n3-l5-f50.pddl	22	22	22	22	22
p32-s50-n4-l2-f50.pddl	24	24	24	24	24
p33-s51-n4-l2-f70.pddl	21	21	21	21	21
p34-s55-n4-l3-f70.pddl	21	21	21	21	21

p38-s78-n3-l3-f50.pddl	13	13	13	13	13
p39-s79-n3-l3-f70.pddl	23	23	23	23	23
p41-s81-n3-l4-f30.pddl	10	10	10	10	10
p42-s82-n3-l4-f50.pddl	30	30	30	30	30
p43-s83-n3-l4-f70.pddl	20	20	20	20	20
p44-s89-n4-l2-f30.pddl	19	19	19	19	19
p45-s94-n4-l3-f50.pddl	20	20	20	20	20
p47-s98-n5-l2-f50.pddl	27	27	27	27	27
p50-s107-n6-l2-f70.pddl	23	23	23	23	23

π-*psr-small*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	8	8	8	8
p02-s5-n1-l3-f30.pddl	11	11	11	11	11
p03-s7-n1-l3-f70.pddl	11	11	11	11	11
p04-s8-n1-l4-f10.pddl	10	10	10	10	10
p05-s9-n1-l4-f30.pddl	11	11	11	11	11
p06-s10-n1-l4-f50.pddl	8	8	8	8	8
p07-s11-n1-l4-f70.pddl	11	11	11	11	11
p08-s12-n1-l5-f10.pddl	8	8	8	8	8
p09-s13-n1-l5-f30.pddl	8	8	8	8	8
p10-s17-n2-l2-f30.pddl	7	7	7	7	7
p11-s18-n2-l2-f50.pddl	19	19	19	19	19
p12-s21-n2-l3-f30.pddl	16	16	16	16	16
p13-s22-n2-l3-f50.pddl	15	15	15	15	15
p14-s23-n2-l3-f70.pddl	9	9	9	9	9
p15-s24-n2-l4-f10.pddl	10	10	10	10	10
p16-s29-n2-l5-f30.pddl	25	25	25	25	25
p17-s30-n2-l5-f50.pddl	9	9	9	9	9
p18-s31-n2-l5-f70.pddl	12	12	12	12	12
p19-s33-n3-l2-f30.pddl	25	25	25	31	31
p20-s34-n3-l2-f50.pddl	17	17	17	17	17
p21-s35-n3-l2-f70.pddl	10	10	10	10	10
p22-s37-n3-l3-f30.pddl	33	33	33	33	33

p23-s38-n3-l3-f50.pddl	12	12	12	12	12
p24-s39-n3-l3-f70.pddl	10	10	10	10	10
p26-s41-n3-l4-f30.pddl	17	17	17	17	17
p27-s42-n3-l4-f50.pddl	21	21	21	21	21
p28-s43-n3-l4-f70.pddl	14	14	14	14	14
p29-s45-n3-l5-f30.pddl	21	21	21	27	27
p30-s46-n3-l5-f50.pddl	22	22	22	22	22
p32-s50-n4-l2-f50.pddl	24	24	24	24	24
p33-s51-n4-l2-f70.pddl	21	21	21	21	21
p34-s55-n4-l3-f70.pddl	21	21	21	21	21
p38-s78-n3-l3-f50.pddl	13	13	13	13	13
p39-s79-n3-l3-f70.pddl	23	23	23	23	23
p41-s81-n3-l4-f30.pddl	10	10	10	10	10
p42-s82-n3-l4-f50.pddl	30	30	30	30	30
p43-s83-n3-l4-f70.pddl	20	20	20	20	20
p44-s89-n4-l2-f30.pddl	19	19	19	19	19
p45-s94-n4-l3-f50.pddl	20	20	20	20	20
p47-s98-n5-l2-f50.pddl	27	31	27	27	27
p50-s107-n6-l2-f70.pddl	23	23	23	23	23

π-*psr-small*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	8	8	8	8
p02-s5-n1-l3-f30.pddl	11	11	11	11	11
p03-s7-n1-l3-f70.pddl	11	11	11	11	11
p04-s8-n1-l4-f10.pddl	10	10	10	10	10
p05-s9-n1-l4-f30.pddl	11	11	11	11	11
p06-s10-n1-l4-f50.pddl	8	8	8	8	8
p07-s11-n1-l4-f70.pddl	11	11	11	11	11
p08-s12-n1-l5-f10.pddl	8	8	8	8	8
p09-s13-n1-l5-f30.pddl	8	8	8	8	8
p10-s17-n2-l2-f30.pddl	7	7	7	7	7
p11-s18-n2-l2-f50.pddl	19	19	19	19	19
p12-s21-n2-l3-f30.pddl	16	16	16	16	16

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p13-s22-n2-l3-f50.pddl	15	15	15	15	15
p14-s23-n2-l3-f70.pddl	9	9	9	9	9
p15-s24-n2-l4-f10.pddl	10	10	10	10	10
p16-s29-n2-l5-f30.pddl	25	25	25	25	25
p17-s30-n2-l5-f50.pddl	9	9	9	9	9
p18-s31-n2-l5-f70.pddl	12	12	12	12	12
p19-s33-n3-l2-f30.pddl	25	25	25	25	25
p20-s34-n3-l2-f50.pddl	17	17	17	17	17
p21-s35-n3-l2-f70.pddl	10	10	10	10	10
p22-s37-n3-l3-f30.pddl	33	38	33	33	33
p23-s38-n3-l3-f50.pddl	12	12	12	12	12
p24-s39-n3-l3-f70.pddl	10	10	10	10	10
p26-s41-n3-l4-f30.pddl	17	17	17	17	17
p27-s42-n3-l4-f50.pddl	21	21	21	21	21
p28-s43-n3-l4-f70.pddl	14	14	14	14	14
p29-s45-n3-l5-f30.pddl	21	21	21	21	21
p30-s46-n3-l5-f50.pddl	22	22	22	22	22
p32-s50-n4-l2-f50.pddl	24	24	24	24	24
p33-s51-n4-l2-f70.pddl	21	21	21	21	21
p34-s55-n4-l3-f70.pddl	21	21	21	21	21
p38-s78-n3-l3-f50.pddl	13	13	13	13	13
p39-s79-n3-l3-f70.pddl	23	23	23	23	23
p41-s81-n3-l4-f30.pddl	10	10	10	10	10
p42-s82-n3-l4-f50.pddl	30	30	30	30	30
p43-s83-n3-l4-f70.pddl	20	20	20	20	20
p44-s89-n4-l2-f30.pddl	19	19	19	19	19
p45-s94-n4-l3-f50.pddl	20	20	20	20	20
p47-s98-n5-l2-f50.pddl	27	27	27	27	27
p50-s107-n6-l2-f70.pddl	23	23	23	23	23

π-*psr-small*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	8	8	8	8	8
p02-s5-n1-l3-f30.pddl	11	11	11	11	11

p03-s7-n1-l3-f70.pddl	11	11	11	11	11
p04-s8-n1-l4-f10.pddl	10	10	10	10	10
p05-s9-n1-l4-f30.pddl	11	11	11	11	11
p06-s10-n1-l4-f50.pddl	8	8	8	8	8
p07-s11-n1-l4-f70.pddl	11	11	11	11	11
p08-s12-n1-l5-f10.pddl	8	8	8	8	8
p09-s13-n1-l5-f30.pddl	8	8	8	8	8
p10-s17-n2-l2-f30.pddl	7	7	7	7	7
p11-s18-n2-l2-f50.pddl	19	19	19	19	19
p12-s21-n2-l3-f30.pddl	16	16	16	16	16
p13-s22-n2-l3-f50.pddl	15	15	15	15	15
p14-s23-n2-l3-f70.pddl	9	9	9	9	9
p15-s24-n2-l4-f10.pddl	10	10	10	10	10
p16-s29-n2-l5-f30.pddl	25	25	25	25	25
p17-s30-n2-l5-f50.pddl	9	9	9	9	9
p18-s31-n2-l5-f70.pddl	12	12	12	12	12
p19-s33-n3-l2-f30.pddl	25	25	25	31	31
p20-s34-n3-l2-f50.pddl	17	17	17	17	17
p21-s35-n3-l2-f70.pddl	10	10	10	10	10
p22-s37-n3-l3-f30.pddl	33	33	33	33	33
p23-s38-n3-l3-f50.pddl	12	12	12	12	12
p24-s39-n3-l3-f70.pddl	10	10	10	10	10
p26-s41-n3-l4-f30.pddl	17	17	17	17	17
p27-s42-n3-l4-f50.pddl	21	21	21	21	21
p28-s43-n3-l4-f70.pddl	14	14	14	14	14
p29-s45-n3-l5-f30.pddl	21	21	21	27	27
p30-s46-n3-l5-f50.pddl	22	22	22	22	22
p32-s50-n4-l2-f50.pddl	24	24	24	24	24
p33-s51-n4-l2-f70.pddl	21	21	21	21	21
p34-s55-n4-l3-f70.pddl	21	21	21	21	21
p38-s78-n3-l3-f50.pddl	13	13	13	13	13
p39-s79-n3-l3-f70.pddl	23	23	23	23	23
p41-s81-n3-l4-f30.pddl	10	10	10	10	10
p42-s82-n3-l4-f50.pddl	30	30	30	30	30

p43-s83-n3-l4-f70.pddl	20	20	20	20	20
p44-s89-n4-l2-f30.pddl	19	19	19	19	19
p45-s94-n4-l3-f50.pddl	20	20	20	20	20
p47-s98-n5-l2-f50.pddl	27	31	27	27	27
p50-s107-n6-l2-f70.pddl	23	23	23	23	23

π-*rovers*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	10	10	10	10
p02.pddl	8	8	8	8	8
p03.pddl	11	13	13	13	13
p04.pddl	8	8	8	8	8
p05.pddl	22	22	22	22	22

π-*rovers*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	10	10	12	12
p02.pddl	8	8	8	8	8
p03.pddl	11	12	12	12	12
p04.pddl	8	8	8	8	8
p05.pddl	22	22	22	22	22

π-*rovers*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10	10	10	10	10
p02.pddl	8	8	8	8	8
p03.pddl	11	13	13	13	13
p04.pddl	8	8	8	8	8
p05.pddl	22	22	22	22	22

π-*rovers*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p01.pddl	10	10	10	12	12
p02.pddl	8	8	8	8	8
p03.pddl	11	12	12	12	12
p04.pddl	8	8	8	8	8
p05.pddl	22	22	22	22	22

π-*satellite*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	9	9	9	9
p02-pfile2.pddl	13	13	17	13	13
p03-pfile3.pddl	11	11	11	11	11
p04-pfile4.pddl	17	22	22	21	21

π-*satellite*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	9	9	9	9
p02-pfile2.pddl	13	13	13	13	13
p03-pfile3.pddl	11	12	11	11	11
p04-pfile4.pddl	17	17	22	22	22

π-*satellite*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	9	9	9	9
p02-pfile2.pddl	13	13	17	13	13
p03-pfile3.pddl	11	11	11	11	11
p04-pfile4.pddl	17	22	22	21	21

π-*satellite*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9	9	9	9	9
p02-pfile2.pddl	13	13	13	13	13
p03-pfile3.pddl	11	12	11	11	11

p04-pfile4.pddl	17	17	22	22	22

π-scanalyzer-08-strips-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	12	6
p02.pddl	10	14	14	12	14
p03.pddl	14	18	18	18	18
p22.pddl	5	5	5	5	5
p23.pddl	5	5	5	5	5
p24.pddl	5	5	5	5	5

π-scanalyzer-08-strips-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	10	6
p02.pddl	10	14	14	12	12
p03.pddl	14	18	18	16	18
p22.pddl	5	5	5	5	5
p23.pddl	5	5	5	5	5
p24.pddl	5	5	5	5	5

π-scanalyzer-08-strips-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	6	6
p02.pddl	10	12	14	14	14
p03.pddl	14	18	20	14	14
p22.pddl	5	5	5	5	5
p23.pddl	5	5	5	5	5
p24.pddl	5	5	5	5	5

π-scanalyzer-08-strips-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	6	6	6	6	6

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p02.pddl	10	12	12	10	10
p03.pddl	14	18	20	14	14
p22.pddl	5	5	5	5	5
p23.pddl	5	5	5	5	5
p24.pddl	5	5	5	5	5

π-*scanalyzer-opt11-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	10	14	14	12	14
p03.pddl	14	18	18	18	18

π-*scanalyzer-opt11-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	10	14	14	12	12
p03.pddl	14	18	18	16	18

π-*scanalyzer-opt11-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	10	12	14	14	14
p03.pddl	14	18	20	14	14

π-*scanalyzer-opt11-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	10	12	12	10	10
p03.pddl	14	18	20	14	14

π-*storage*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	3	3	3	3	3
p02.pddl	3	3	3	3	3
p03.pddl	3	3	3	3	3
p04.pddl	8	8	8	8	8
p05.pddl	8	9	9	9	9
p06.pddl	8	9	9	9	9
p07.pddl	14	14	14	14	14

π-*storage*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	3	3	3	3	3
p02.pddl	3	3	3	3	3
p03.pddl	3	3	3	3	3
p04.pddl	8	8	8	8	8
p05.pddl	8	9	9	9	9
p06.pddl	8	9	9	9	9
p07.pddl	14	14	14	14	14

π-*storage*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	3	3	3	3	3
p02.pddl	3	3	3	3	3
p03.pddl	3	3	3	3	3
p04.pddl	8	8	8	8	8
p05.pddl	8	9	9	9	9
p06.pddl	8	9	9	9	9
p07.pddl	14	14	14	14	14

π-*storage*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	3	3	3	3	3
p02.pddl	3	3	3	3	3
p03.pddl	3	3	3	3	3

p04.pddl	8	8	8	8	8
p05.pddl	8	9	9	9	9
p06.pddl	8	9	9	9	9
p07.pddl	14	14	14	14	14

π-*termes-opt18-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	40	36	36	36
p02.pddl	54	74	58	58	58
p11.pddl	66	90	86	86	86
p12.pddl	46	62	60	60	60
p17.pddl	116	164	168	164	164
p18.pddl	76	114	100	100	100

π-*termes-opt18-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	36	36	36	36
p02.pddl	54	70	54	54	54
p11.pddl	66	84	98	90	90
p12.pddl	46	68	60	60	60
p17.pddl	116	168	210	174	174
p18.pddl	76	132	104	110	110

π-*termes-opt18-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36	40	36	36	36
p02.pddl	54	74	58	58	58
p11.pddl	66	90	86	86	86
p12.pddl	46	62	60	60	60
p17.pddl	116	164	168	164	164
p18.pddl	76	114	100	100	100

π-*termes-opt18-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	36	36	36	36	36
p02.pddl	54	70	54	54	54
p11.pddl	66	84	98	90	90
p12.pddl	46	68	60	60	60
p17.pddl	116	168	210	174	174
p18.pddl	76	132	104	110	110

π-*tpp*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	8	10	10	10	10
p03.pddl	11	15	15	15	15
p04.pddl	14	20	20	20	20

π-*tpp*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	8	8	8	8	8
p03.pddl	11	11	11	11	11
p04.pddl	14	14	14	14	14

π-*tpp*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	8	10	10	10	10
p03.pddl	11	15	15	15	15
p04.pddl	14	20	20	20	20

π-*tpp*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

π	h^*				
p01.pddl	5	5	5	5	5
p02.pddl	8	8	8	8	8
p03.pddl	11	11	11	11	11
p04.pddl	14	14	14	14	14

π-*transport-opt08-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	7	7	7	7
p02.pddl	12	12	18	12	18
p03.pddl	17	18	19	18	19
p11.pddl	9	9	13	9	13
p13.pddl	22	22	38	22	38
p21.pddl	7	8	8	8	8
p23.pddl	19	19	21	19	21

π-*transport-opt08-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	7	5	5	5
p02.pddl	12	12	12	12	12
p03.pddl	17	29	23	29	29
p11.pddl	9	9	9	9	9
p13.pddl	22	32	29	33	33
p21.pddl	7	7	7	7	7
p23.pddl	19	22	20	21	21

π-*transport-opt08-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	7	7	7	7
p02.pddl	12	12	12	12	12
p03.pddl	17	19	19	19	19
p11.pddl	9	9	9	9	9
p13.pddl	21	30	30	30	30
p21.pddl	7	8	8	8	8

π	h^*				
p23.pddl	17	21	21	21	21

*π-transport-opt08-strips-*Unitary*-sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5	5	5	5	5
p02.pddl	12	12	12	12	12
p03.pddl	17	21	21	21	21
p11.pddl	9	9	9	9	9
p13.pddl	21	22	22	22	22
p21.pddl	7	7	7	7	7
p23.pddl	17	19	19	19	19

*π-transport-opt11-strips-*Normal*-sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	19	19	21	19	21
p02.pddl	17	18	19	18	19
p04.pddl	22	22	38	22	38

*π-transport-opt11-strips-*Normal*-sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	19	22	20	21	21
p02.pddl	17	29	23	29	29
p04.pddl	22	32	29	33	33

*π-transport-opt11-strips-*Unitary*-sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	17	21	21	21	21
p02.pddl	17	19	19	19	19
p04.pddl	21	30	30	30	30

*π-transport-opt11-strips-*Unitary*-sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

π	h^*				
p01.pddl	17	19	19	19	19
p02.pddl	17	21	21	21	21
p04.pddl	21	22	22	22	22

π-*transport-opt14-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	25	28	44	28	44

π-*transport-opt14-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	25	30	34	33	33

π-*transport-opt14-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	25	28	28	28	28

π-*transport-opt14-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	25	31	34	34	34

π-*trucks-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13	14	14	14	14
p02.pddl	17	18	18	18	18
p03.pddl	20	24	24	24	24

π-*trucks-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13	15	14	14	14
p02.pddl	17	18	17	18	18
p03.pddl	20	24	23	24	24

π-*trucks-strips*-Unitary-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13	14	14	14	14
p02.pddl	17	18	18	18	18
p03.pddl	20	24	24	24	24

π-*trucks-strips*-Unitary-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13	15	14	14	14
p02.pddl	17	18	17	18	18
p03.pddl	20	24	23	24	24

π-*visitall-opt11-strips*-Normal-*sys2*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	6	6	6	6
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	11	11	11	11
problem05-half.pddl	18	21	21	21	21
problem06-half.pddl	23	29	29	29	29

π-*visitall-opt11-strips*-Normal-*sys4*

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	6	6	6	6
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	11	11	11	11
problem05-half.pddl	18	19	19	19	19

problem06-half.pddl	23	23	23	23	23

π-visitall-opt11-strips-Unitary-sys2

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	6	6	6	6
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	11	11	11	11
problem05-half.pddl	18	21	21	21	21
problem06-half.pddl	23	29	29	29	29

π-visitall-opt11-strips-Unitary-sys4

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	3	3	3	3	3
problem02-half.pddl	1	1	1	1	1
problem03-full.pddl	8	8	8	8	8
problem03-half.pddl	6	6	6	6	6
problem04-full.pddl	15	15	15	15	15
problem04-half.pddl	11	11	11	11	11
problem05-half.pddl	18	19	19	19	19
problem06-half.pddl	23	23	23	23	23

π-visitall-opt14-strips-Normal-sys2

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21	22	22	22	22
p-05-6.pddl	25	29	29	29	29

π-visitall-opt14-strips-Normal-sys4

π	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21	22	22	22	22

p-05-6.pddl	25	25	25	25	25

π-*visitall-opt14-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	21	22	22	22	22
p-05-6.pddl	25	29	29	29	29

π-*visitall-opt14-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	21	22	22	22	22
p-05-6.pddl	25	25	25	25	25

π-*woodworking-opt08-strips*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	6	6	6	6	6

π-*woodworking-opt08-strips*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	6	6	6	6	6

π-*woodworking-opt08-strips*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	5	5	5	5	5

π-*woodworking-opt08-strips*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p21.pddl	5	5	5	5	5

π-*zenotravel*-Normal-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p02.pddl	6	6	6	6	6
p03.pddl	6	6	6	6	6
p04.pddl	8	11	11	11	11
p05.pddl	11	14	14	14	14
p06.pddl	11	14	14	14	14
p07.pddl	15	21	16	19	19

π-*zenotravel*-Normal-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	6	6	6	6	6
p03.pddl	6	6	6	6	6
p04.pddl	8	9	8	8	8
p05.pddl	11	14	16	11	11
p06.pddl	11	14	12	12	12
p07.pddl	15	16	16	16	16

π-*zenotravel*-Unitary-*sys2*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	6	6	6	6	6
p03.pddl	6	6	6	6	6
p04.pddl	8	11	11	11	11
p05.pddl	11	14	14	14	14
p06.pddl	11	14	14	14	14
p07.pddl	15	21	16	19	19

π-*zenotravel*-Unitary-*sys4*

π	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1	1	1	1	1
p02.pddl	6	6	6	6	6
p03.pddl	6	6	6	6	6
p04.pddl	8	9	8	8	8

p05.pddl	11	14	16	11	11
p06.pddl	11	14	12	12	12
p07.pddl	15	16	16	16	16

$cost(\pi)$-*blocks*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-4-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-4-2.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-5-0.pddl	12.0	12.0	12.0	12.0	12.0
probBLOCKS-5-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-5-2.pddl	16.0	20.0	24.0	24.0	24.0
probBLOCKS-6-0.pddl	12.0	32.0	32.0	32.0	32.0
probBLOCKS-6-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-6-2.pddl	20.0	26.0	32.0	32.0	32.0

$cost(\pi)$-*blocks*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-4-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-4-2.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-5-0.pddl	12.0	12.0	12.0	12.0	12.0
probBLOCKS-5-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-5-2.pddl	16.0	20.0	24.0	24.0	24.0
probBLOCKS-6-0.pddl	12.0	32.0	28.0	28.0	28.0
probBLOCKS-6-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-6-2.pddl	20.0	24.0	26.0	32.0	32.0

$cost(\pi)$-*blocks*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-4-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-4-2.pddl	6.0	6.0	6.0	6.0	6.0

probBLOCKS-5-0.pddl	12.0	12.0	12.0	12.0	12.0
probBLOCKS-5-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-5-2.pddl	16.0	20.0	24.0	24.0	24.0
probBLOCKS-6-0.pddl	12.0	32.0	32.0	32.0	32.0
probBLOCKS-6-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-6-2.pddl	20.0	26.0	32.0	32.0	32.0

$cost(\pi)$-*blocks*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probBLOCKS-4-0.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-4-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-4-2.pddl	6.0	6.0	6.0	6.0	6.0
probBLOCKS-5-0.pddl	12.0	12.0	12.0	12.0	12.0
probBLOCKS-5-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-5-2.pddl	16.0	20.0	24.0	24.0	24.0
probBLOCKS-6-0.pddl	12.0	32.0	28.0	28.0	28.0
probBLOCKS-6-1.pddl	10.0	10.0	10.0	10.0	10.0
probBLOCKS-6-2.pddl	20.0	24.0	26.0	32.0	32.0

$cost(\pi)$-*depot*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	10.0	10.0	10.0	10.0

$cost(\pi)$-*depot*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	11.0	11.0	11.0	11.0

$cost(\pi)$-*depot*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	10.0	10.0	10.0	10.0

$cost(\pi)$-*depot*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	10.0	11.0	11.0	11.0	11.0

$cost(\pi)$-*driverlog*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	7.0	8.0	8.0	8.0	8.0
p02.pddl	19.0	19.0	20.0	20.0	20.0
p03.pddl	12.0	13.0	12.0	13.0	13.0
p04.pddl	16.0	19.0	19.0	19.0	19.0
p05.pddl	18.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*driverlog*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	7.0	7.0	7.0	7.0	7.0
p02.pddl	19.0	19.0	21.0	23.0	23.0
p03.pddl	12.0	12.0	12.0	12.0	12.0
p04.pddl	16.0	21.0	17.0	17.0	17.0
p05.pddl	18.0	19.0	21.0	21.0	21.0

$cost(\pi)$-*driverlog*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	7.0	8.0	8.0	8.0	8.0
p02.pddl	19.0	19.0	20.0	20.0	20.0
p03.pddl	12.0	13.0	12.0	13.0	13.0
p04.pddl	16.0	19.0	19.0	19.0	19.0
p05.pddl	18.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*driverlog*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	7.0	7.0	7.0	7.0	7.0
p02.pddl	19.0	19.0	21.0	23.0	23.0
p03.pddl	12.0	12.0	12.0	12.0	12.0

p04.pddl	16.0	21.0	17.0	17.0	17.0
p05.pddl	18.0	19.0	21.0	21.0	21.0

$cost(\pi)$-*elevators-opt08-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	55.0	116.0	91.0	102.0	102.0
p11.pddl	60.0	78.0	78.0	78.0	78.0

$cost(\pi)$-*elevators-opt08-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	55.0	94.0	82.0	73.0	73.0
p11.pddl	60.0	89.0	168.0	91.0	91.0

$cost(\pi)$-*elevators-opt08-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	76.0	76.0	80.0	80.0	80.0
p11.pddl	60.0	72.0	82.0	82.0	82.0

$cost(\pi)$-*elevators-opt08-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	76.0	63.0	76.0	65.0	65.0
p11.pddl	60.0	69.0	60.0	60.0	60.0

$cost(\pi)$-*elevators-opt11-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	60.0	78.0	78.0	78.0	78.0
p04.pddl	55.0	116.0	91.0	102.0	102.0

$cost(\pi)$-*elevators-opt11-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	60.0	89.0	168.0	91.0	91.0

| p04.pddl | 55.0 | 94.0 | 82.0 | 73.0 | 73.0 |

cost(π)-elevators-opt11-strips-Unitary-sys2

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	60.0	72.0	82.0	82.0	82.0
p04.pddl	76.0	76.0	80.0	80.0	80.0

cost(π)-elevators-opt11-strips-Unitary-sys4

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	60.0	69.0	60.0	60.0	60.0
p04.pddl	76.0	63.0	76.0	65.0	65.0

cost(π)-ged-opt14-strips-Normal-sys2

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1.0	1.0	1.0	1.0	1.0
d-1-4.pddl	1.0	1.0	1.0	1.0	1.0
d-2-1.pddl	1.0	1.0	1.0	1.0	1.0

cost(π)-ged-opt14-strips-Normal-sys4

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1.0	1.0	1.0	1.0	1.0
d-1-4.pddl	1.0	1.0	1.0	1.0	1.0
d-2-1.pddl	1.0	1.0	1.0	1.0	1.0

cost(π)-ged-opt14-strips-Unitary-sys2

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1.0	1.0	1.0	1.0	1.0
d-1-4.pddl	1.0	1.0	1.0	1.0	1.0
d-2-1.pddl	1.0	1.0	1.0	1.0	1.0

cost(π)-ged-opt14-strips-Unitary-sys4

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
d-1-2.pddl	1.0	1.0	1.0	1.0	1.0
d-1-4.pddl	1.0	1.0	1.0	1.0	1.0
d-2-1.pddl	1.0	1.0	1.0	1.0	1.0

$cost(\pi)$-*gripper*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11.0	15.0	15.0	15.0	15.0
prob02.pddl	17.0	23.0	23.0	23.0	23.0
prob03.pddl	23.0	31.0	31.0	31.0	31.0
prob04.pddl	29.0	39.0	39.0	39.0	39.0
prob05.pddl	35.0	47.0	47.0	47.0	47.0

$cost(\pi)$-*gripper*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11.0	13.0	13.0	13.0	13.0
prob02.pddl	17.0	21.0	21.0	21.0	21.0
prob03.pddl	23.0	29.0	29.0	29.0	29.0
prob04.pddl	29.0	37.0	37.0	37.0	37.0
prob05.pddl	35.0	45.0	45.0	45.0	45.0

$cost(\pi)$-*gripper*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11.0	15.0	15.0	15.0	15.0
prob02.pddl	17.0	23.0	23.0	23.0	23.0
prob03.pddl	23.0	31.0	31.0	31.0	31.0
prob04.pddl	29.0	39.0	39.0	39.0	39.0
prob05.pddl	35.0	47.0	47.0	47.0	47.0

$cost(\pi)$-*gripper*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	11.0	13.0	13.0	13.0	13.0

	17.0	21.0	21.0	21.0	21.0
prob02.pddl	17.0	21.0	21.0	21.0	21.0
prob03.pddl	23.0	29.0	29.0	29.0	29.0
prob04.pddl	29.0	37.0	37.0	37.0	37.0
prob05.pddl	35.0	45.0	45.0	45.0	45.0

$cost(\pi)$-*hiking-opt14-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11.0	11.0	11.0	11.0	11.0
ptesting-1-2-4.pddl	17.0	19.0	18.0	18.0	18.0
ptesting-1-2-5.pddl	25.0	29.0	27.0	27.0	27.0
ptesting-1-2-7.pddl	38.0	46.0	42.0	42.0	42.0
ptesting-1-2-8.pddl	45.0	55.0	50.0	50.0	50.0
ptesting-2-2-3.pddl	10.0	10.0	12.0	12.0	12.0
ptesting-2-2-4.pddl	16.0	17.0	21.0	21.0	21.0
ptesting-2-2-5.pddl	22.0	24.0	30.0	30.0	30.0
ptesting-2-2-6.pddl	30.0	34.0	34.0	34.0	34.0
ptesting-2-3-4.pddl	17.0	19.0	19.0	19.0	19.0
ptesting-2-3-5.pddl	24.0	27.0	27.0	27.0	27.0
ptesting-2-4-3.pddl	10.0	10.0	12.0	12.0	12.0
ptesting-2-4-4.pddl	17.0	19.0	19.0	19.0	19.0

$cost(\pi)$-*hiking-opt14-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11.0	11.0	11.0	11.0	11.0
ptesting-1-2-4.pddl	17.0	19.0	19.0	19.0	19.0
ptesting-1-2-5.pddl	25.0	29.0	29.0	29.0	29.0
ptesting-1-2-7.pddl	38.0	46.0	46.0	46.0	46.0
ptesting-1-2-8.pddl	45.0	55.0	55.0	55.0	55.0
ptesting-2-2-3.pddl	10.0	13.0	13.0	13.0	13.0
ptesting-2-2-4.pddl	16.0	17.0	20.0	19.0	19.0
ptesting-2-2-5.pddl	22.0	24.0	26.0	26.0	26.0
ptesting-2-2-6.pddl	30.0	34.0	33.0	33.0	33.0
ptesting-2-3-4.pddl	17.0	19.0	19.0	20.0	20.0

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-2-3-5.pddl	24.0	27.0	31.0	28.0	28.0
ptesting-2-4-3.pddl	10.0	13.0	15.0	12.0	12.0
ptesting-2-4-4.pddl	17.0	19.0	19.0	20.0	20.0

$cost(\pi)$-*hiking-opt14-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11.0	11.0	11.0	11.0	11.0
ptesting-1-2-4.pddl	17.0	19.0	18.0	18.0	18.0
ptesting-1-2-5.pddl	25.0	29.0	27.0	27.0	27.0
ptesting-1-2-7.pddl	38.0	46.0	42.0	42.0	42.0
ptesting-1-2-8.pddl	45.0	55.0	50.0	50.0	50.0
ptesting-2-2-3.pddl	10.0	10.0	12.0	12.0	12.0
ptesting-2-2-4.pddl	16.0	17.0	21.0	21.0	21.0
ptesting-2-2-5.pddl	22.0	24.0	30.0	30.0	30.0
ptesting-2-2-6.pddl	30.0	34.0	34.0	34.0	34.0
ptesting-2-3-4.pddl	17.0	19.0	19.0	19.0	19.0
ptesting-2-3-5.pddl	24.0	27.0	27.0	27.0	27.0
ptesting-2-4-3.pddl	10.0	10.0	12.0	12.0	12.0
ptesting-2-4-4.pddl	17.0	19.0	19.0	19.0	19.0

$cost(\pi)$-*hiking-opt14-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	11.0	11.0	11.0	11.0	11.0
ptesting-1-2-4.pddl	17.0	19.0	19.0	19.0	19.0
ptesting-1-2-5.pddl	25.0	29.0	29.0	29.0	29.0
ptesting-1-2-7.pddl	38.0	46.0	46.0	46.0	46.0
ptesting-1-2-8.pddl	45.0	55.0	55.0	55.0	55.0
ptesting-2-2-3.pddl	10.0	13.0	13.0	13.0	13.0
ptesting-2-2-4.pddl	16.0	17.0	20.0	19.0	19.0
ptesting-2-2-5.pddl	22.0	24.0	26.0	26.0	26.0
ptesting-2-2-6.pddl	30.0	34.0	33.0	33.0	33.0
ptesting-2-3-4.pddl	17.0	19.0	19.0	20.0	20.0
ptesting-2-3-5.pddl	24.0	27.0	31.0	28.0	28.0

ptesting-2-4-3.pddl	10.0	13.0	15.0	12.0	12.0
ptesting-2-4-4.pddl	17.0	19.0	19.0	20.0	20.0

$cost(\pi)$-*logistics00*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20.0	20.0	20.0	20.0	20.0
probLOGISTICS-4-1.pddl	19.0	19.0	19.0	19.0	19.0
probLOGISTICS-4-2.pddl	15.0	15.0	16.0	16.0	16.0
probLOGISTICS-5-0.pddl	27.0	27.0	30.0	28.0	28.0
probLOGISTICS-5-1.pddl	17.0	17.0	17.0	17.0	17.0
probLOGISTICS-5-2.pddl	8.0	8.0	8.0	8.0	8.0
probLOGISTICS-6-0.pddl	25.0	25.0	25.0	25.0	25.0
probLOGISTICS-6-1.pddl	14.0	14.0	14.0	14.0	14.0
probLOGISTICS-6-2.pddl	25.0	25.0	27.0	25.0	25.0
probLOGISTICS-6-9.pddl	24.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*logistics00*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20.0	20.0	20.0	20.0	20.0
probLOGISTICS-4-1.pddl	19.0	19.0	19.0	19.0	19.0
probLOGISTICS-4-2.pddl	15.0	15.0	15.0	15.0	15.0
probLOGISTICS-5-0.pddl	27.0	27.0	29.0	27.0	27.0
probLOGISTICS-5-1.pddl	17.0	17.0	17.0	17.0	17.0
probLOGISTICS-5-2.pddl	8.0	8.0	8.0	8.0	8.0
probLOGISTICS-6-0.pddl	25.0	25.0	27.0	25.0	25.0
probLOGISTICS-6-1.pddl	14.0	14.0	14.0	14.0	14.0
probLOGISTICS-6-2.pddl	25.0	25.0	25.0	25.0	25.0
probLOGISTICS-6-9.pddl	24.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*logistics00*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20.0	20.0	20.0	20.0	20.0
probLOGISTICS-4-1.pddl	19.0	19.0	19.0	19.0	19.0

probLOGISTICS-4-2.pddl	15.0	15.0	16.0	16.0	16.0
probLOGISTICS-5-0.pddl	27.0	27.0	30.0	28.0	28.0
probLOGISTICS-5-1.pddl	17.0	17.0	17.0	17.0	17.0
probLOGISTICS-5-2.pddl	8.0	8.0	8.0	8.0	8.0
probLOGISTICS-6-0.pddl	25.0	25.0	25.0	25.0	25.0
probLOGISTICS-6-1.pddl	14.0	14.0	14.0	14.0	14.0
probLOGISTICS-6-2.pddl	25.0	25.0	27.0	25.0	25.0
probLOGISTICS-6-9.pddl	24.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*logistics00*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	20.0	20.0	20.0	20.0	20.0
probLOGISTICS-4-1.pddl	19.0	19.0	19.0	19.0	19.0
probLOGISTICS-4-2.pddl	15.0	15.0	15.0	15.0	15.0
probLOGISTICS-5-0.pddl	27.0	27.0	29.0	27.0	27.0
probLOGISTICS-5-1.pddl	17.0	17.0	17.0	17.0	17.0
probLOGISTICS-5-2.pddl	8.0	8.0	8.0	8.0	8.0
probLOGISTICS-6-0.pddl	25.0	25.0	27.0	25.0	25.0
probLOGISTICS-6-1.pddl	14.0	14.0	14.0	14.0	14.0
probLOGISTICS-6-2.pddl	25.0	25.0	25.0	25.0	25.0
probLOGISTICS-6-9.pddl	24.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*logistics98*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13.0	13.0	13.0	13.0	13.0
prob32.pddl	20.0	21.0	21.0	21.0	21.0

$cost(\pi)$-*logistics98*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob31.pddl	13.0	13.0	13.0	13.0	13.0
prob32.pddl	20.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*logistics98*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	13.0	13.0	13.0	13.0	13.0
prob32.pddl	20.0	21.0	21.0	21.0	21.0

$cost(\pi)$-*logistics98*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	13.0	13.0	13.0	13.0	13.0
prob32.pddl	20.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*miconic*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	4.0	4.0	4.0	4.0	4.0
s1-1.pddl	3.0	3.0	3.0	3.0	3.0
s1-2.pddl	4.0	4.0	4.0	4.0	4.0
s1-3.pddl	4.0	4.0	4.0	4.0	4.0
s1-4.pddl	4.0	4.0	4.0	4.0	4.0
s10-0.pddl	33.0	39.0	35.0	35.0	35.0
s10-1.pddl	32.0	37.0	35.0	35.0	35.0
s10-2.pddl	32.0	37.0	35.0	38.0	38.0
s10-3.pddl	34.0	39.0	35.0	37.0	37.0
s10-4.pddl	33.0	37.0	34.0	35.0	35.0
s11-0.pddl	37.0	43.0	41.0	42.0	42.0
s11-1.pddl	34.0	43.0	36.0	40.0	40.0
s11-2.pddl	38.0	43.0	42.0	43.0	43.0
s11-3.pddl	38.0	42.0	39.0	41.0	41.0
s11-4.pddl	35.0	41.0	40.0	40.0	40.0
s2-0.pddl	7.0	8.0	7.0	7.0	7.0
s2-1.pddl	7.0	7.0	7.0	7.0	7.0
s2-2.pddl	7.0	7.0	7.0	7.0	7.0
s2-3.pddl	7.0	8.0	8.0	8.0	8.0
s2-4.pddl	7.0	8.0	8.0	8.0	8.0
s3-0.pddl	10.0	12.0	12.0	12.0	12.0

s3-1.pddl	11.0	11.0	11.0	11.0	11.0
s3-2.pddl	10.0	12.0	12.0	12.0	12.0
s3-3.pddl	10.0	10.0	10.0	10.0	10.0
s3-4.pddl	10.0	11.0	11.0	11.0	11.0
s4-0.pddl	14.0	15.0	14.0	15.0	15.0
s4-1.pddl	13.0	13.0	13.0	14.0	14.0
s4-2.pddl	15.0	16.0	15.0	15.0	15.0
s4-3.pddl	15.0	16.0	16.0	16.0	16.0
s4-4.pddl	15.0	16.0	16.0	16.0	16.0
s5-0.pddl	17.0	19.0	18.0	19.0	19.0
s5-1.pddl	17.0	19.0	18.0	18.0	18.0
s5-2.pddl	15.0	18.0	16.0	18.0	18.0
s5-3.pddl	17.0	20.0	18.0	18.0	18.0
s5-4.pddl	18.0	19.0	19.0	20.0	20.0
s6-0.pddl	19.0	22.0	24.0	23.0	23.0
s6-1.pddl	19.0	22.0	19.0	21.0	21.0
s6-2.pddl	20.0	24.0	22.0	23.0	23.0
s6-3.pddl	20.0	22.0	21.0	23.0	23.0
s6-4.pddl	21.0	23.0	21.0	22.0	22.0
s7-0.pddl	23.0	27.0	24.0	24.0	24.0
s7-1.pddl	24.0	27.0	26.0	27.0	27.0
s7-2.pddl	22.0	25.0	22.0	25.0	25.0
s7-3.pddl	22.0	25.0	24.0	26.0	26.0
s7-4.pddl	25.0	26.0	27.0	27.0	27.0
s8-0.pddl	27.0	30.0	30.0	32.0	32.0
s8-1.pddl	27.0	29.0	29.0	29.0	29.0
s8-2.pddl	26.0	30.0	31.0	31.0	31.0
s8-3.pddl	28.0	28.0	29.0	29.0	29.0
s8-4.pddl	27.0	31.0	29.0	31.0	31.0
s9-0.pddl	31.0	35.0	33.0	36.0	36.0
s9-1.pddl	30.0	34.0	33.0	34.0	34.0
s9-2.pddl	30.0	34.0	33.0	34.0	34.0
s9-3.pddl	32.0	34.0	32.0	32.0	32.0
s9-4.pddl	28.0	33.0	31.0	31.0	31.0

$cost(\pi)$-*miconic*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4.0	4.0	4.0	4.0	4.0
s1-1.pddl	3.0	3.0	3.0	3.0	3.0
s1-2.pddl	4.0	4.0	4.0	4.0	4.0
s1-3.pddl	4.0	4.0	4.0	4.0	4.0
s1-4.pddl	4.0	4.0	4.0	4.0	4.0
s10-0.pddl	33.0	36.0	35.0	35.0	35.0
s10-1.pddl	32.0	35.0	35.0	35.0	35.0
s10-2.pddl	32.0	36.0	36.0	38.0	38.0
s10-3.pddl	34.0	36.0	35.0	36.0	36.0
s10-4.pddl	33.0	36.0	34.0	35.0	35.0
s11-0.pddl	37.0	41.0	40.0	42.0	42.0
s11-1.pddl	34.0	39.0	37.0	37.0	37.0
s11-2.pddl	38.0	40.0	42.0	42.0	42.0
s11-3.pddl	38.0	40.0	40.0	41.0	41.0
s11-4.pddl	35.0	39.0	40.0	40.0	40.0
s2-0.pddl	7.0	7.0	7.0	7.0	7.0
s2-1.pddl	7.0	7.0	7.0	7.0	7.0
s2-2.pddl	7.0	7.0	7.0	7.0	7.0
s2-3.pddl	7.0	7.0	7.0	7.0	7.0
s2-4.pddl	7.0	8.0	7.0	7.0	7.0
s3-0.pddl	10.0	12.0	11.0	11.0	11.0
s3-1.pddl	11.0	11.0	11.0	11.0	11.0
s3-2.pddl	10.0	12.0	10.0	11.0	11.0
s3-3.pddl	10.0	10.0	10.0	10.0	10.0
s3-4.pddl	10.0	11.0	10.0	10.0	10.0
s4-0.pddl	14.0	14.0	14.0	15.0	15.0
s4-1.pddl	13.0	13.0	13.0	14.0	14.0
s4-2.pddl	15.0	15.0	15.0	15.0	15.0
s4-3.pddl	15.0	16.0	15.0	16.0	16.0
s4-4.pddl	15.0	16.0	16.0	16.0	16.0
s5-0.pddl	17.0	18.0	17.0	19.0	19.0
s5-1.pddl	17.0	18.0	18.0	18.0	18.0

s5-2.pddl	15.0	16.0	15.0	16.0	16.0
s5-3.pddl	17.0	18.0	17.0	17.0	17.0
s5-4.pddl	18.0	19.0	18.0	20.0	20.0
s6-0.pddl	19.0	21.0	21.0	20.0	20.0
s6-1.pddl	19.0	21.0	20.0	21.0	21.0
s6-2.pddl	20.0	23.0	21.0	22.0	22.0
s6-3.pddl	20.0	20.0	21.0	23.0	23.0
s6-4.pddl	21.0	21.0	21.0	22.0	22.0
s7-0.pddl	23.0	25.0	24.0	24.0	24.0
s7-1.pddl	24.0	27.0	26.0	27.0	27.0
s7-2.pddl	22.0	24.0	22.0	24.0	24.0
s7-3.pddl	22.0	24.0	24.0	25.0	25.0
s7-4.pddl	25.0	26.0	26.0	25.0	25.0
s8-0.pddl	27.0	29.0	29.0	31.0	31.0
s8-1.pddl	27.0	29.0	29.0	28.0	28.0
s8-2.pddl	26.0	29.0	30.0	31.0	31.0
s8-3.pddl	28.0	29.0	29.0	29.0	29.0
s8-4.pddl	27.0	29.0	29.0	31.0	31.0
s9-0.pddl	31.0	33.0	33.0	36.0	36.0
s9-1.pddl	30.0	32.0	33.0	33.0	33.0
s9-2.pddl	30.0	33.0	33.0	34.0	34.0
s9-3.pddl	32.0	32.0	32.0	32.0	32.0
s9-4.pddl	28.0	31.0	29.0	30.0	30.0

$cost(\pi)$-*miconic*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4.0	4.0	4.0	4.0	4.0
s1-1.pddl	3.0	3.0	3.0	3.0	3.0
s1-2.pddl	4.0	4.0	4.0	4.0	4.0
s1-3.pddl	4.0	4.0	4.0	4.0	4.0
s1-4.pddl	4.0	4.0	4.0	4.0	4.0
s10-0.pddl	33.0	39.0	35.0	35.0	35.0
s10-1.pddl	32.0	37.0	35.0	35.0	35.0
s10-2.pddl	32.0	37.0	35.0	38.0	38.0

s10-3.pddl	34.0	39.0	35.0	37.0	37.0
s10-4.pddl	33.0	37.0	34.0	35.0	35.0
s11-0.pddl	37.0	43.0	41.0	42.0	42.0
s11-1.pddl	34.0	43.0	36.0	40.0	40.0
s11-2.pddl	38.0	43.0	42.0	43.0	43.0
s11-3.pddl	38.0	42.0	39.0	41.0	41.0
s11-4.pddl	35.0	41.0	40.0	40.0	40.0
s2-0.pddl	7.0	8.0	7.0	7.0	7.0
s2-1.pddl	7.0	7.0	7.0	7.0	7.0
s2-2.pddl	7.0	7.0	7.0	7.0	7.0
s2-3.pddl	7.0	8.0	8.0	8.0	8.0
s2-4.pddl	7.0	8.0	8.0	8.0	8.0
s3-0.pddl	10.0	12.0	12.0	12.0	12.0
s3-1.pddl	11.0	11.0	11.0	11.0	11.0
s3-2.pddl	10.0	12.0	12.0	12.0	12.0
s3-3.pddl	10.0	10.0	10.0	10.0	10.0
s3-4.pddl	10.0	11.0	11.0	11.0	11.0
s4-0.pddl	14.0	15.0	14.0	15.0	15.0
s4-1.pddl	13.0	13.0	13.0	14.0	14.0
s4-2.pddl	15.0	16.0	15.0	15.0	15.0
s4-3.pddl	15.0	16.0	16.0	16.0	16.0
s4-4.pddl	15.0	16.0	16.0	16.0	16.0
s5-0.pddl	17.0	19.0	18.0	19.0	19.0
s5-1.pddl	17.0	19.0	18.0	18.0	18.0
s5-2.pddl	15.0	18.0	16.0	18.0	18.0
s5-3.pddl	17.0	20.0	18.0	18.0	18.0
s5-4.pddl	18.0	19.0	19.0	20.0	20.0
s6-0.pddl	19.0	22.0	24.0	23.0	23.0
s6-1.pddl	19.0	22.0	19.0	21.0	21.0
s6-2.pddl	20.0	24.0	22.0	23.0	23.0
s6-3.pddl	20.0	22.0	21.0	23.0	23.0
s6-4.pddl	21.0	23.0	21.0	22.0	22.0
s7-0.pddl	23.0	27.0	24.0	24.0	24.0
s7-1.pddl	24.0	27.0	26.0	27.0	27.0

s7-2.pddl	22.0	25.0	22.0	25.0	25.0
s7-3.pddl	22.0	25.0	24.0	26.0	26.0
s7-4.pddl	25.0	26.0	27.0	27.0	27.0
s8-0.pddl	27.0	30.0	30.0	32.0	32.0
s8-1.pddl	27.0	29.0	29.0	29.0	29.0
s8-2.pddl	26.0	30.0	31.0	31.0	31.0
s8-3.pddl	28.0	28.0	29.0	29.0	29.0
s8-4.pddl	27.0	31.0	29.0	31.0	31.0
s9-0.pddl	31.0	35.0	33.0	36.0	36.0
s9-1.pddl	30.0	34.0	33.0	34.0	34.0
s9-2.pddl	30.0	34.0	33.0	34.0	34.0
s9-3.pddl	32.0	34.0	32.0	32.0	32.0
s9-4.pddl	28.0	33.0	31.0	31.0	31.0

$cost(\pi)$-*miconic*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	4.0	4.0	4.0	4.0	4.0
s1-1.pddl	3.0	3.0	3.0	3.0	3.0
s1-2.pddl	4.0	4.0	4.0	4.0	4.0
s1-3.pddl	4.0	4.0	4.0	4.0	4.0
s1-4.pddl	4.0	4.0	4.0	4.0	4.0
s10-0.pddl	33.0	36.0	35.0	35.0	35.0
s10-1.pddl	32.0	35.0	35.0	35.0	35.0
s10-2.pddl	32.0	36.0	36.0	38.0	38.0
s10-3.pddl	34.0	36.0	35.0	36.0	36.0
s10-4.pddl	33.0	36.0	34.0	35.0	35.0
s11-0.pddl	37.0	41.0	40.0	42.0	42.0
s11-1.pddl	34.0	39.0	37.0	37.0	37.0
s11-2.pddl	38.0	40.0	42.0	42.0	42.0
s11-3.pddl	38.0	40.0	40.0	41.0	41.0
s11-4.pddl	35.0	39.0	40.0	40.0	40.0
s2-0.pddl	7.0	7.0	7.0	7.0	7.0
s2-1.pddl	7.0	7.0	7.0	7.0	7.0
s2-2.pddl	7.0	7.0	7.0	7.0	7.0

s2-3.pddl	7.0	7.0	7.0	7.0	7.0
s2-4.pddl	7.0	8.0	7.0	7.0	7.0
s3-0.pddl	10.0	12.0	11.0	11.0	11.0
s3-1.pddl	11.0	11.0	11.0	11.0	11.0
s3-2.pddl	10.0	12.0	10.0	11.0	11.0
s3-3.pddl	10.0	10.0	10.0	10.0	10.0
s3-4.pddl	10.0	11.0	10.0	10.0	10.0
s4-0.pddl	14.0	14.0	14.0	15.0	15.0
s4-1.pddl	13.0	13.0	13.0	14.0	14.0
s4-2.pddl	15.0	15.0	15.0	15.0	15.0
s4-3.pddl	15.0	16.0	15.0	16.0	16.0
s4-4.pddl	15.0	16.0	16.0	16.0	16.0
s5-0.pddl	17.0	18.0	17.0	19.0	19.0
s5-1.pddl	17.0	18.0	18.0	18.0	18.0
s5-2.pddl	15.0	16.0	15.0	16.0	16.0
s5-3.pddl	17.0	18.0	17.0	17.0	17.0
s5-4.pddl	18.0	19.0	18.0	20.0	20.0
s6-0.pddl	19.0	21.0	21.0	20.0	20.0
s6-1.pddl	19.0	21.0	20.0	21.0	21.0
s6-2.pddl	20.0	23.0	21.0	22.0	22.0
s6-3.pddl	20.0	20.0	21.0	23.0	23.0
s6-4.pddl	21.0	21.0	21.0	22.0	22.0
s7-0.pddl	23.0	25.0	24.0	24.0	24.0
s7-1.pddl	24.0	27.0	26.0	27.0	27.0
s7-2.pddl	22.0	24.0	22.0	24.0	24.0
s7-3.pddl	22.0	24.0	24.0	25.0	25.0
s7-4.pddl	25.0	26.0	26.0	25.0	25.0
s8-0.pddl	27.0	29.0	29.0	31.0	31.0
s8-1.pddl	27.0	29.0	29.0	28.0	28.0
s8-2.pddl	26.0	29.0	30.0	31.0	31.0
s8-3.pddl	28.0	29.0	29.0	29.0	29.0
s8-4.pddl	27.0	29.0	29.0	31.0	31.0
s9-0.pddl	31.0	33.0	33.0	36.0	36.0
s9-1.pddl	30.0	32.0	33.0	33.0	33.0

s9-2.pddl	30.0	33.0	33.0	34.0	34.0
s9-3.pddl	32.0	32.0	32.0	32.0	32.0
s9-4.pddl	28.0	31.0	29.0	30.0	30.0

$cost(\pi)$-*movie*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7.0	7.0	7.0	7.0	7.0
prob02.pddl	7.0	7.0	7.0	7.0	7.0
prob03.pddl	7.0	7.0	7.0	7.0	7.0
prob04.pddl	7.0	7.0	7.0	7.0	7.0
prob05.pddl	7.0	7.0	7.0	7.0	7.0
prob06.pddl	7.0	7.0	7.0	7.0	7.0
prob07.pddl	7.0	7.0	7.0	7.0	7.0
prob08.pddl	7.0	7.0	7.0	7.0	7.0
prob09.pddl	7.0	7.0	7.0	7.0	7.0
prob10.pddl	7.0	7.0	7.0	7.0	7.0
prob11.pddl	7.0	7.0	7.0	7.0	7.0
prob12.pddl	7.0	7.0	7.0	7.0	7.0
prob13.pddl	7.0	7.0	7.0	7.0	7.0
prob14.pddl	7.0	7.0	7.0	7.0	7.0
prob15.pddl	7.0	7.0	7.0	7.0	7.0
prob16.pddl	7.0	7.0	7.0	7.0	7.0
prob17.pddl	7.0	7.0	7.0	7.0	7.0
prob18.pddl	7.0	7.0	7.0	7.0	7.0
prob19.pddl	7.0	7.0	7.0	7.0	7.0
prob20.pddl	7.0	7.0	7.0	7.0	7.0
prob21.pddl	7.0	7.0	7.0	7.0	7.0
prob22.pddl	7.0	7.0	7.0	7.0	7.0
prob23.pddl	7.0	7.0	7.0	7.0	7.0
prob24.pddl	7.0	7.0	7.0	7.0	7.0
prob25.pddl	7.0	7.0	7.0	7.0	7.0
prob26.pddl	7.0	7.0	7.0	7.0	7.0
prob27.pddl	7.0	7.0	7.0	7.0	7.0
prob28.pddl	7.0	7.0	7.0	7.0	7.0

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob29.pddl	7.0	7.0	7.0	7.0	7.0
prob30.pddl	7.0	7.0	7.0	7.0	7.0

$cost(\pi)$-*movie*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7.0	7.0	7.0	7.0	7.0
prob02.pddl	7.0	7.0	7.0	7.0	7.0
prob03.pddl	7.0	7.0	7.0	7.0	7.0
prob04.pddl	7.0	7.0	7.0	7.0	7.0
prob05.pddl	7.0	7.0	7.0	7.0	7.0
prob06.pddl	7.0	7.0	7.0	7.0	7.0
prob07.pddl	7.0	7.0	7.0	7.0	7.0
prob08.pddl	7.0	7.0	7.0	7.0	7.0
prob09.pddl	7.0	7.0	7.0	7.0	7.0
prob10.pddl	7.0	7.0	7.0	7.0	7.0
prob11.pddl	7.0	7.0	7.0	7.0	7.0
prob12.pddl	7.0	7.0	7.0	7.0	7.0
prob13.pddl	7.0	7.0	7.0	7.0	7.0
prob14.pddl	7.0	7.0	7.0	7.0	7.0
prob15.pddl	7.0	7.0	7.0	7.0	7.0
prob16.pddl	7.0	7.0	7.0	7.0	7.0
prob17.pddl	7.0	7.0	7.0	7.0	7.0
prob18.pddl	7.0	7.0	7.0	7.0	7.0
prob19.pddl	7.0	7.0	7.0	7.0	7.0
prob20.pddl	7.0	7.0	7.0	7.0	7.0
prob21.pddl	7.0	7.0	7.0	7.0	7.0
prob22.pddl	7.0	7.0	7.0	7.0	7.0
prob23.pddl	7.0	7.0	7.0	7.0	7.0
prob24.pddl	7.0	7.0	7.0	7.0	7.0
prob25.pddl	7.0	7.0	7.0	7.0	7.0
prob26.pddl	7.0	7.0	7.0	7.0	7.0
prob27.pddl	7.0	7.0	7.0	7.0	7.0
prob28.pddl	7.0	7.0	7.0	7.0	7.0
prob29.pddl	7.0	7.0	7.0	7.0	7.0

prob30.pddl	7.0	7.0	7.0	7.0	7.0

$cost(\pi)$-*movie*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7.0	7.0	7.0	7.0	7.0
prob02.pddl	7.0	7.0	7.0	7.0	7.0
prob03.pddl	7.0	7.0	7.0	7.0	7.0
prob04.pddl	7.0	7.0	7.0	7.0	7.0
prob05.pddl	7.0	7.0	7.0	7.0	7.0
prob06.pddl	7.0	7.0	7.0	7.0	7.0
prob07.pddl	7.0	7.0	7.0	7.0	7.0
prob08.pddl	7.0	7.0	7.0	7.0	7.0
prob09.pddl	7.0	7.0	7.0	7.0	7.0
prob10.pddl	7.0	7.0	7.0	7.0	7.0
prob11.pddl	7.0	7.0	7.0	7.0	7.0
prob12.pddl	7.0	7.0	7.0	7.0	7.0
prob13.pddl	7.0	7.0	7.0	7.0	7.0
prob14.pddl	7.0	7.0	7.0	7.0	7.0
prob15.pddl	7.0	7.0	7.0	7.0	7.0
prob16.pddl	7.0	7.0	7.0	7.0	7.0
prob17.pddl	7.0	7.0	7.0	7.0	7.0
prob18.pddl	7.0	7.0	7.0	7.0	7.0
prob19.pddl	7.0	7.0	7.0	7.0	7.0
prob20.pddl	7.0	7.0	7.0	7.0	7.0
prob21.pddl	7.0	7.0	7.0	7.0	7.0
prob22.pddl	7.0	7.0	7.0	7.0	7.0
prob23.pddl	7.0	7.0	7.0	7.0	7.0
prob24.pddl	7.0	7.0	7.0	7.0	7.0
prob25.pddl	7.0	7.0	7.0	7.0	7.0
prob26.pddl	7.0	7.0	7.0	7.0	7.0
prob27.pddl	7.0	7.0	7.0	7.0	7.0
prob28.pddl	7.0	7.0	7.0	7.0	7.0
prob29.pddl	7.0	7.0	7.0	7.0	7.0
prob30.pddl	7.0	7.0	7.0	7.0	7.0

$cost(\pi)$-*movie*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	7.0	7.0	7.0	7.0	7.0
prob02.pddl	7.0	7.0	7.0	7.0	7.0
prob03.pddl	7.0	7.0	7.0	7.0	7.0
prob04.pddl	7.0	7.0	7.0	7.0	7.0
prob05.pddl	7.0	7.0	7.0	7.0	7.0
prob06.pddl	7.0	7.0	7.0	7.0	7.0
prob07.pddl	7.0	7.0	7.0	7.0	7.0
prob08.pddl	7.0	7.0	7.0	7.0	7.0
prob09.pddl	7.0	7.0	7.0	7.0	7.0
prob10.pddl	7.0	7.0	7.0	7.0	7.0
prob11.pddl	7.0	7.0	7.0	7.0	7.0
prob12.pddl	7.0	7.0	7.0	7.0	7.0
prob13.pddl	7.0	7.0	7.0	7.0	7.0
prob14.pddl	7.0	7.0	7.0	7.0	7.0
prob15.pddl	7.0	7.0	7.0	7.0	7.0
prob16.pddl	7.0	7.0	7.0	7.0	7.0
prob17.pddl	7.0	7.0	7.0	7.0	7.0
prob18.pddl	7.0	7.0	7.0	7.0	7.0
prob19.pddl	7.0	7.0	7.0	7.0	7.0
prob20.pddl	7.0	7.0	7.0	7.0	7.0
prob21.pddl	7.0	7.0	7.0	7.0	7.0
prob22.pddl	7.0	7.0	7.0	7.0	7.0
prob23.pddl	7.0	7.0	7.0	7.0	7.0
prob24.pddl	7.0	7.0	7.0	7.0	7.0
prob25.pddl	7.0	7.0	7.0	7.0	7.0
prob26.pddl	7.0	7.0	7.0	7.0	7.0
prob27.pddl	7.0	7.0	7.0	7.0	7.0
prob28.pddl	7.0	7.0	7.0	7.0	7.0
prob29.pddl	7.0	7.0	7.0	7.0	7.0
prob30.pddl	7.0	7.0	7.0	7.0	7.0

$cost(\pi)$-*mprime*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mprime*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mprime*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mprime*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mystery*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	5.0	5.0	5.0	5.0	5.0
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mystery*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	5.0	5.0	5.0	5.0	5.0
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mystery*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	5.0	5.0	5.0	5.0	5.0
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*mystery*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	5.0	5.0	5.0	5.0	5.0
prob25.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*nomystery-opt11-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11.0	11.0	11.0	11.0	11.0
p02.pddl	14.0	14.0	14.0	14.0	14.0
p03.pddl	15.0	15.0	19.0	15.0	15.0
p04.pddl	19.0	19.0	20.0	19.0	19.0
p11.pddl	12.0	12.0	12.0	12.0	12.0
p12.pddl	14.0	14.0	14.0	14.0	14.0
p13.pddl	15.0	15.0	15.0	15.0	15.0
p14.pddl	19.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*nomystery-opt11-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11.0	11.0	11.0	11.0	11.0
p02.pddl	14.0	14.0	14.0	14.0	14.0
p03.pddl	15.0	15.0	15.0	15.0	15.0
p04.pddl	19.0	19.0	20.0	19.0	19.0
p11.pddl	12.0	12.0	13.0	12.0	12.0
p12.pddl	14.0	14.0	14.0	14.0	14.0
p13.pddl	15.0	15.0	15.0	15.0	15.0
p14.pddl	19.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*nomystery-opt11-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	11.0	11.0	11.0	11.0	11.0
p02.pddl	14.0	14.0	14.0	14.0	14.0
p03.pddl	15.0	15.0	19.0	15.0	15.0

	h^*				
p04.pddl	19.0	19.0	20.0	19.0	19.0
p11.pddl	12.0	12.0	12.0	12.0	12.0
p12.pddl	14.0	14.0	14.0	14.0	14.0
p13.pddl	15.0	15.0	15.0	15.0	15.0
p14.pddl	19.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*nomystery-opt11-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	11.0	11.0	11.0	11.0	11.0
p02.pddl	14.0	14.0	14.0	14.0	14.0
p03.pddl	15.0	15.0	15.0	15.0	15.0
p04.pddl	19.0	19.0	20.0	19.0	19.0
p11.pddl	12.0	12.0	13.0	12.0	12.0
p12.pddl	14.0	14.0	14.0	14.0	14.0
p13.pddl	15.0	15.0	15.0	15.0	15.0
p14.pddl	19.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*openstacks-opt08-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p02.pddl	2.0	2.0	2.0	2.0	2.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p04.pddl	3.0	3.0	3.0	3.0	3.0
p05.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*openstacks-opt08-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p02.pddl	2.0	2.0	2.0	2.0	2.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p04.pddl	3.0	3.0	3.0	3.0	3.0
p05.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*openstacks-opt08-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p02.pddl	2.0	2.0	2.0	2.0	2.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p04.pddl	3.0	3.0	3.0	3.0	3.0
p05.pddl	4.0	4.0	5.0	4.0	4.0

$cost(\pi)$-*openstacks-opt08-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p02.pddl	2.0	2.0	2.0	2.0	2.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p04.pddl	3.0	3.0	3.0	3.0	3.0
p05.pddl	4.0	4.0	5.0	4.0	4.0

$cost(\pi)$-*openstacks-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	23.0	24.0	24.0	24.0	24.0
p02.pddl	23.0	24.0	24.0	24.0	24.0
p03.pddl	23.0	24.0	24.0	24.0	24.0
p04.pddl	23.0	24.0	24.0	24.0	24.0
p05.pddl	23.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*openstacks-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	23.0	25.0	25.0	25.0	25.0
p02.pddl	23.0	25.0	25.0	25.0	25.0
p03.pddl	23.0	25.0	25.0	25.0	25.0
p04.pddl	23.0	25.0	25.0	25.0	25.0
p05.pddl	23.0	25.0	25.0	25.0	25.0

*cost(π)-openstacks-strips-*Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	23.0	24.0	24.0	24.0	24.0
p02.pddl	23.0	24.0	24.0	24.0	24.0
p03.pddl	23.0	24.0	24.0	24.0	24.0
p04.pddl	23.0	24.0	24.0	24.0	24.0
p05.pddl	23.0	24.0	24.0	24.0	24.0

*cost(π)-openstacks-strips-*Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	23.0	25.0	25.0	25.0	25.0
p02.pddl	23.0	25.0	25.0	25.0	25.0
p03.pddl	23.0	25.0	25.0	25.0	25.0
p04.pddl	23.0	25.0	25.0	25.0	25.0
p05.pddl	23.0	25.0	25.0	25.0	25.0

*cost(π)-organic-synthesis-opt18-strips-*Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	1.0	1.0	1.0	1.0	1.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p07.pddl	2.0	2.0	2.0	2.0	2.0

*cost(π)-organic-synthesis-opt18-strips-*Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	1.0	1.0	1.0	1.0	1.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p07.pddl	2.0	2.0	2.0	2.0	2.0

*cost(π)-organic-synthesis-opt18-strips-*Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

cost(π)	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	1.0	1.0	1.0	1.0	1.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p07.pddl	2.0	2.0	2.0	2.0	2.0

cost(π)-organic-synthesis-opt18-strips-Unitary-sys4

cost(π)	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	1.0	1.0	1.0	1.0	1.0
p03.pddl	2.0	2.0	2.0	2.0	2.0
p07.pddl	2.0	2.0	2.0	2.0	2.0

cost(π)-parcprinter-08-strips-Normal-sys2

cost(π)	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	169009.0	169009.0	169009.0	169009.0	169009.0
p11.pddl	182808.0	182808.0	182808.0	182808.0	182808.0
p21.pddl	143411.0	143411.0	143411.0	143411.0	143411.0

cost(π)-parcprinter-08-strips-Normal-sys4

cost(π)	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	169009.0	169009.0	169009.0	169009.0	169009.0
p11.pddl	182808.0	182808.0	182808.0	182808.0	182808.0
p21.pddl	143411.0	143411.0	143411.0	143411.0	143411.0

cost(π)-parcprinter-08-strips-Unitary-sys2

cost(π)	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	269038.0	269038.0	269038.0	269038.0	269038.0
p11.pddl	182808.0	327448.0	327448.0	327448.0	327448.0
p21.pddl	232410.0	232410.0	232410.0	232410.0	232410.0

cost(π)-parcprinter-08-strips-Unitary-sys4

cost(π)	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

p01.pddl	269038.0	269038.0	269038.0	269038.0	269038.0
p11.pddl	182808.0	182808.0	182808.0	182808.0	182808.0
p21.pddl	232410.0	232410.0	232410.0	232410.0	232410.0

$cost(\pi)$-*pegsol-08-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p05.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*pegsol-08-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p05.pddl	4.0	4.0	4.0	4.0	4.0

$cost(\pi)$-*pegsol-08-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p05.pddl	4.0	5.0	6.0	5.0	5.0

$cost(\pi)$-*pegsol-08-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	2.0	2.0	2.0	2.0	2.0
p05.pddl	4.0	6.0	5.0	6.0	6.0

$cost(\pi)$-*psr-small*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8.0	8.0	8.0	8.0	8.0
p02-s5-n1-l3-f30.pddl	11.0	11.0	11.0	11.0	11.0
p03-s7-n1-l3-f70.pddl	11.0	11.0	11.0	11.0	11.0
p04-s8-n1-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p05-s9-n1-l4-f30.pddl	11.0	11.0	11.0	11.0	11.0
p06-s10-n1-l4-f50.pddl	8.0	8.0	8.0	8.0	8.0

p07-s11-n1-l4-f70.pddl	11.0	11.0	11.0	11.0	11.0
p08-s12-n1-l5-f10.pddl	8.0	8.0	8.0	8.0	8.0
p09-s13-n1-l5-f30.pddl	8.0	8.0	8.0	8.0	8.0
p10-s17-n2-l2-f30.pddl	7.0	7.0	7.0	7.0	7.0
p11-s18-n2-l2-f50.pddl	19.0	19.0	19.0	19.0	19.0
p12-s21-n2-l3-f30.pddl	16.0	16.0	16.0	16.0	16.0
p13-s22-n2-l3-f50.pddl	15.0	15.0	15.0	15.0	15.0
p14-s23-n2-l3-f70.pddl	9.0	9.0	9.0	9.0	9.0
p15-s24-n2-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p16-s29-n2-l5-f30.pddl	25.0	25.0	25.0	25.0	25.0
p17-s30-n2-l5-f50.pddl	9.0	9.0	9.0	9.0	9.0
p18-s31-n2-l5-f70.pddl	12.0	12.0	12.0	12.0	12.0
p19-s33-n3-l2-f30.pddl	25.0	25.0	25.0	25.0	25.0
p20-s34-n3-l2-f50.pddl	17.0	17.0	17.0	17.0	17.0
p21-s35-n3-l2-f70.pddl	10.0	10.0	10.0	10.0	10.0
p22-s37-n3-l3-f30.pddl	33.0	38.0	33.0	33.0	33.0
p23-s38-n3-l3-f50.pddl	12.0	12.0	12.0	12.0	12.0
p24-s39-n3-l3-f70.pddl	10.0	10.0	10.0	10.0	10.0
p26-s41-n3-l4-f30.pddl	17.0	17.0	17.0	17.0	17.0
p27-s42-n3-l4-f50.pddl	21.0	21.0	21.0	21.0	21.0
p28-s43-n3-l4-f70.pddl	14.0	14.0	14.0	14.0	14.0
p29-s45-n3-l5-f30.pddl	21.0	21.0	21.0	21.0	21.0
p30-s46-n3-l5-f50.pddl	22.0	22.0	22.0	22.0	22.0
p32-s50-n4-l2-f50.pddl	24.0	24.0	24.0	24.0	24.0
p33-s51-n4-l2-f70.pddl	21.0	21.0	21.0	21.0	21.0
p34-s55-n4-l3-f70.pddl	21.0	21.0	21.0	21.0	21.0
p38-s78-n3-l3-f50.pddl	13.0	13.0	13.0	13.0	13.0
p39-s79-n3-l3-f70.pddl	23.0	23.0	23.0	23.0	23.0
p41-s81-n3-l4-f30.pddl	10.0	10.0	10.0	10.0	10.0
p42-s82-n3-l4-f50.pddl	30.0	30.0	30.0	30.0	30.0
p43-s83-n3-l4-f70.pddl	20.0	20.0	20.0	20.0	20.0
p44-s89-n4-l2-f30.pddl	19.0	19.0	19.0	19.0	19.0
p45-s94-n4-l3-f50.pddl	20.0	20.0	20.0	20.0	20.0
p47-s98-n5-l2-f50.pddl	27.0	27.0	27.0	27.0	27.0

p50-s107-n6-l2-f70.pddl	23.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*psr-small*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8.0	8.0	8.0	8.0	8.0
p02-s5-n1-l3-f30.pddl	11.0	11.0	11.0	11.0	11.0
p03-s7-n1-l3-f70.pddl	11.0	11.0	11.0	11.0	11.0
p04-s8-n1-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p05-s9-n1-l4-f30.pddl	11.0	11.0	11.0	11.0	11.0
p06-s10-n1-l4-f50.pddl	8.0	8.0	8.0	8.0	8.0
p07-s11-n1-l4-f70.pddl	11.0	11.0	11.0	11.0	11.0
p08-s12-n1-l5-f10.pddl	8.0	8.0	8.0	8.0	8.0
p09-s13-n1-l5-f30.pddl	8.0	8.0	8.0	8.0	8.0
p10-s17-n2-l2-f30.pddl	7.0	7.0	7.0	7.0	7.0
p11-s18-n2-l2-f50.pddl	19.0	19.0	19.0	19.0	19.0
p12-s21-n2-l3-f30.pddl	16.0	16.0	16.0	16.0	16.0
p13-s22-n2-l3-f50.pddl	15.0	15.0	15.0	15.0	15.0
p14-s23-n2-l3-f70.pddl	9.0	9.0	9.0	9.0	9.0
p15-s24-n2-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p16-s29-n2-l5-f30.pddl	25.0	25.0	25.0	25.0	25.0
p17-s30-n2-l5-f50.pddl	9.0	9.0	9.0	9.0	9.0
p18-s31-n2-l5-f70.pddl	12.0	12.0	12.0	12.0	12.0
p19-s33-n3-l2-f30.pddl	25.0	25.0	25.0	31.0	31.0
p20-s34-n3-l2-f50.pddl	17.0	17.0	17.0	17.0	17.0
p21-s35-n3-l2-f70.pddl	10.0	10.0	10.0	10.0	10.0
p22-s37-n3-l3-f30.pddl	33.0	33.0	33.0	33.0	33.0
p23-s38-n3-l3-f50.pddl	12.0	12.0	12.0	12.0	12.0
p24-s39-n3-l3-f70.pddl	10.0	10.0	10.0	10.0	10.0
p26-s41-n3-l4-f30.pddl	17.0	17.0	17.0	17.0	17.0
p27-s42-n3-l4-f50.pddl	21.0	21.0	21.0	21.0	21.0
p28-s43-n3-l4-f70.pddl	14.0	14.0	14.0	14.0	14.0
p29-s45-n3-l5-f30.pddl	21.0	21.0	21.0	27.0	27.0
p30-s46-n3-l5-f50.pddl	22.0	22.0	22.0	22.0	22.0
p32-s50-n4-l2-f50.pddl	24.0	24.0	24.0	24.0	24.0

p33-s51-n4-l2-f70.pddl	21.0	21.0	21.0	21.0	21.0
p34-s55-n4-l3-f70.pddl	21.0	21.0	21.0	21.0	21.0
p38-s78-n3-l3-f50.pddl	13.0	13.0	13.0	13.0	13.0
p39-s79-n3-l3-f70.pddl	23.0	23.0	23.0	23.0	23.0
p41-s81-n3-l4-f30.pddl	10.0	10.0	10.0	10.0	10.0
p42-s82-n3-l4-f50.pddl	30.0	30.0	30.0	30.0	30.0
p43-s83-n3-l4-f70.pddl	20.0	20.0	20.0	20.0	20.0
p44-s89-n4-l2-f30.pddl	19.0	19.0	19.0	19.0	19.0
p45-s94-n4-l3-f50.pddl	20.0	20.0	20.0	20.0	20.0
p47-s98-n5-l2-f50.pddl	27.0	31.0	27.0	27.0	27.0
p50-s107-n6-l2-f70.pddl	23.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*psr-small*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-s2-n1-l2-f50.pddl	8.0	8.0	8.0	8.0	8.0
p02-s5-n1-l3-f30.pddl	11.0	11.0	11.0	11.0	11.0
p03-s7-n1-l3-f70.pddl	11.0	11.0	11.0	11.0	11.0
p04-s8-n1-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p05-s9-n1-l4-f30.pddl	11.0	11.0	11.0	11.0	11.0
p06-s10-n1-l4-f50.pddl	8.0	8.0	8.0	8.0	8.0
p07-s11-n1-l4-f70.pddl	11.0	11.0	11.0	11.0	11.0
p08-s12-n1-l5-f10.pddl	8.0	8.0	8.0	8.0	8.0
p09-s13-n1-l5-f30.pddl	8.0	8.0	8.0	8.0	8.0
p10-s17-n2-l2-f30.pddl	7.0	7.0	7.0	7.0	7.0
p11-s18-n2-l2-f50.pddl	19.0	19.0	19.0	19.0	19.0
p12-s21-n2-l3-f30.pddl	16.0	16.0	16.0	16.0	16.0
p13-s22-n2-l3-f50.pddl	15.0	15.0	15.0	15.0	15.0
p14-s23-n2-l3-f70.pddl	9.0	9.0	9.0	9.0	9.0
p15-s24-n2-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p16-s29-n2-l5-f30.pddl	25.0	25.0	25.0	25.0	25.0
p17-s30-n2-l5-f50.pddl	9.0	9.0	9.0	9.0	9.0
p18-s31-n2-l5-f70.pddl	12.0	12.0	12.0	12.0	12.0
p19-s33-n3-l2-f30.pddl	25.0	25.0	25.0	25.0	25.0
p20-s34-n3-l2-f50.pddl	17.0	17.0	17.0	17.0	17.0

p21-s35-n3-l2-f70.pddl	10.0	10.0	10.0	10.0	10.0
p22-s37-n3-l3-f30.pddl	33.0	38.0	33.0	33.0	33.0
p23-s38-n3-l3-f50.pddl	12.0	12.0	12.0	12.0	12.0
p24-s39-n3-l3-f70.pddl	10.0	10.0	10.0	10.0	10.0
p26-s41-n3-l4-f30.pddl	17.0	17.0	17.0	17.0	17.0
p27-s42-n3-l4-f50.pddl	21.0	21.0	21.0	21.0	21.0
p28-s43-n3-l4-f70.pddl	14.0	14.0	14.0	14.0	14.0
p29-s45-n3-l5-f30.pddl	21.0	21.0	21.0	21.0	21.0
p30-s46-n3-l5-f50.pddl	22.0	22.0	22.0	22.0	22.0
p32-s50-n4-l2-f50.pddl	24.0	24.0	24.0	24.0	24.0
p33-s51-n4-l2-f70.pddl	21.0	21.0	21.0	21.0	21.0
p34-s55-n4-l3-f70.pddl	21.0	21.0	21.0	21.0	21.0
p38-s78-n3-l3-f50.pddl	13.0	13.0	13.0	13.0	13.0
p39-s79-n3-l3-f70.pddl	23.0	23.0	23.0	23.0	23.0
p41-s81-n3-l4-f30.pddl	10.0	10.0	10.0	10.0	10.0
p42-s82-n3-l4-f50.pddl	30.0	30.0	30.0	30.0	30.0
p43-s83-n3-l4-f70.pddl	20.0	20.0	20.0	20.0	20.0
p44-s89-n4-l2-f30.pddl	19.0	19.0	19.0	19.0	19.0
p45-s94-n4-l3-f50.pddl	20.0	20.0	20.0	20.0	20.0
p47-s98-n5-l2-f50.pddl	27.0	27.0	27.0	27.0	27.0
p50-s107-n6-l2-f70.pddl	23.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*psr-small*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	8.0	8.0	8.0	8.0	8.0
p02-s5-n1-l3-f30.pddl	11.0	11.0	11.0	11.0	11.0
p03-s7-n1-l3-f70.pddl	11.0	11.0	11.0	11.0	11.0
p04-s8-n1-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p05-s9-n1-l4-f30.pddl	11.0	11.0	11.0	11.0	11.0
p06-s10-n1-l4-f50.pddl	8.0	8.0	8.0	8.0	8.0
p07-s11-n1-l4-f70.pddl	11.0	11.0	11.0	11.0	11.0
p08-s12-n1-l5-f10.pddl	8.0	8.0	8.0	8.0	8.0
p09-s13-n1-l5-f30.pddl	8.0	8.0	8.0	8.0	8.0
p10-s17-n2-l2-f30.pddl	7.0	7.0	7.0	7.0	7.0

p11-s18-n2-l2-f50.pddl	19.0	19.0	19.0	19.0	19.0
p12-s21-n2-l3-f30.pddl	16.0	16.0	16.0	16.0	16.0
p13-s22-n2-l3-f50.pddl	15.0	15.0	15.0	15.0	15.0
p14-s23-n2-l3-f70.pddl	9.0	9.0	9.0	9.0	9.0
p15-s24-n2-l4-f10.pddl	10.0	10.0	10.0	10.0	10.0
p16-s29-n2-l5-f30.pddl	25.0	25.0	25.0	25.0	25.0
p17-s30-n2-l5-f50.pddl	9.0	9.0	9.0	9.0	9.0
p18-s31-n2-l5-f70.pddl	12.0	12.0	12.0	12.0	12.0
p19-s33-n3-l2-f30.pddl	25.0	25.0	25.0	31.0	31.0
p20-s34-n3-l2-f50.pddl	17.0	17.0	17.0	17.0	17.0
p21-s35-n3-l2-f70.pddl	10.0	10.0	10.0	10.0	10.0
p22-s37-n3-l3-f30.pddl	33.0	33.0	33.0	33.0	33.0
p23-s38-n3-l3-f50.pddl	12.0	12.0	12.0	12.0	12.0
p24-s39-n3-l3-f70.pddl	10.0	10.0	10.0	10.0	10.0
p26-s41-n3-l4-f30.pddl	17.0	17.0	17.0	17.0	17.0
p27-s42-n3-l4-f50.pddl	21.0	21.0	21.0	21.0	21.0
p28-s43-n3-l4-f70.pddl	14.0	14.0	14.0	14.0	14.0
p29-s45-n3-l5-f30.pddl	21.0	21.0	21.0	27.0	27.0
p30-s46-n3-l5-f50.pddl	22.0	22.0	22.0	22.0	22.0
p32-s50-n4-l2-f50.pddl	24.0	24.0	24.0	24.0	24.0
p33-s51-n4-l2-f70.pddl	21.0	21.0	21.0	21.0	21.0
p34-s55-n4-l3-f70.pddl	21.0	21.0	21.0	21.0	21.0
p38-s78-n3-l3-f50.pddl	13.0	13.0	13.0	13.0	13.0
p39-s79-n3-l3-f70.pddl	23.0	23.0	23.0	23.0	23.0
p41-s81-n3-l4-f30.pddl	10.0	10.0	10.0	10.0	10.0
p42-s82-n3-l4-f50.pddl	30.0	30.0	30.0	30.0	30.0
p43-s83-n3-l4-f70.pddl	20.0	20.0	20.0	20.0	20.0
p44-s89-n4-l2-f30.pddl	19.0	19.0	19.0	19.0	19.0
p45-s94-n4-l3-f50.pddl	20.0	20.0	20.0	20.0	20.0
p47-s98-n5-l2-f50.pddl	27.0	31.0	27.0	27.0	27.0
p50-s107-n6-l2-f70.pddl	23.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*rovers*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	10.0	10.0	10.0	10.0
p02.pddl	8.0	8.0	8.0	8.0	8.0
p03.pddl	11.0	13.0	13.0	13.0	13.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	22.0	22.0	22.0	22.0	22.0

$cost(\pi)$-*rovers*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	10.0	10.0	12.0	12.0
p02.pddl	8.0	8.0	8.0	8.0	8.0
p03.pddl	11.0	12.0	12.0	12.0	12.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	22.0	22.0	22.0	22.0	22.0

$cost(\pi)$-*rovers*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	10.0	10.0	10.0	10.0
p02.pddl	8.0	8.0	8.0	8.0	8.0
p03.pddl	11.0	13.0	13.0	13.0	13.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	22.0	22.0	22.0	22.0	22.0

$cost(\pi)$-*rovers*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	10.0	10.0	10.0	12.0	12.0
p02.pddl	8.0	8.0	8.0	8.0	8.0
p03.pddl	11.0	12.0	12.0	12.0	12.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	22.0	22.0	22.0	22.0	22.0

$cost(\pi)$-*satellite*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9.0	9.0	9.0	9.0	9.0
p02-pfile2.pddl	13.0	13.0	17.0	13.0	13.0
p03-pfile3.pddl	11.0	11.0	11.0	11.0	11.0
p04-pfile4.pddl	17.0	22.0	22.0	21.0	21.0

$cost(\pi)$-*satellite*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9.0	9.0	9.0	9.0	9.0
p02-pfile2.pddl	13.0	13.0	13.0	13.0	13.0
p03-pfile3.pddl	11.0	12.0	11.0	11.0	11.0
p04-pfile4.pddl	17.0	17.0	22.0	22.0	22.0

$cost(\pi)$-*satellite*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9.0	9.0	9.0	9.0	9.0
p02-pfile2.pddl	13.0	13.0	17.0	13.0	13.0
p03-pfile3.pddl	11.0	11.0	11.0	11.0	11.0
p04-pfile4.pddl	17.0	22.0	22.0	21.0	21.0

$cost(\pi)$-*satellite*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	9.0	9.0	9.0	9.0	9.0
p02-pfile2.pddl	13.0	13.0	13.0	13.0	13.0
p03-pfile3.pddl	11.0	12.0	11.0	11.0	11.0
p04-pfile4.pddl	17.0	17.0	22.0	22.0	22.0

$cost(\pi)$-*scanalyzer-08-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18.0	18.0	18.0	24.0	18.0
p02.pddl	22.0	26.0	26.0	24.0	26.0
p03.pddl	26.0	30.0	30.0	30.0	30.0

p22.pddl	13.0	13.0	13.0	13.0	13.0
p23.pddl	13.0	13.0	13.0	13.0	13.0
p24.pddl	13.0	13.0	13.0	13.0	13.0

$cost(\pi)$-*scanalyzer-08-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18.0	18.0	18.0	22.0	18.0
p02.pddl	22.0	26.0	26.0	24.0	24.0
p03.pddl	26.0	30.0	30.0	28.0	30.0
p22.pddl	13.0	13.0	13.0	13.0	13.0
p23.pddl	13.0	13.0	13.0	13.0	13.0
p24.pddl	13.0	13.0	13.0	13.0	13.0

$cost(\pi)$-*scanalyzer-08-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18.0	18.0	18.0	18.0	18.0
p02.pddl	22.0	24.0	26.0	26.0	26.0
p03.pddl	26.0	30.0	32.0	26.0	26.0
p22.pddl	13.0	13.0	13.0	13.0	13.0
p23.pddl	13.0	13.0	13.0	13.0	13.0
p24.pddl	13.0	13.0	13.0	13.0	13.0

$cost(\pi)$-*scanalyzer-08-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	18.0	18.0	18.0	18.0	18.0
p02.pddl	22.0	24.0	24.0	22.0	22.0
p03.pddl	26.0	30.0	32.0	26.0	26.0
p22.pddl	13.0	13.0	13.0	13.0	13.0
p23.pddl	13.0	13.0	13.0	13.0	13.0
p24.pddl	13.0	13.0	13.0	13.0	13.0

$cost(\pi)$-*scanalyzer-opt11-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13.0	13.0	13.0	13.0	13.0
p02.pddl	22.0	26.0	26.0	24.0	26.0
p03.pddl	26.0	30.0	30.0	30.0	30.0

$cost(\pi)$-*scanalyzer-opt11-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13.0	13.0	13.0	13.0	13.0
p02.pddl	22.0	26.0	26.0	24.0	24.0
p03.pddl	26.0	30.0	30.0	28.0	30.0

$cost(\pi)$-*scanalyzer-opt11-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13.0	13.0	13.0	13.0	13.0
p02.pddl	22.0	24.0	26.0	26.0	26.0
p03.pddl	26.0	30.0	32.0	26.0	26.0

$cost(\pi)$-*scanalyzer-opt11-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	13.0	13.0	13.0	13.0	13.0
p02.pddl	22.0	24.0	24.0	22.0	22.0
p03.pddl	26.0	30.0	32.0	26.0	26.0

$cost(\pi)$-*storage*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	3.0	3.0	3.0	3.0	3.0
p02.pddl	3.0	3.0	3.0	3.0	3.0
p03.pddl	3.0	3.0	3.0	3.0	3.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	8.0	9.0	9.0	9.0	9.0
p06.pddl	8.0	9.0	9.0	9.0	9.0
p07.pddl	14.0	14.0	14.0	14.0	14.0

$cost(\pi)$-*storage*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	3.0	3.0	3.0	3.0	3.0
p02.pddl	3.0	3.0	3.0	3.0	3.0
p03.pddl	3.0	3.0	3.0	3.0	3.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	8.0	9.0	9.0	9.0	9.0
p06.pddl	8.0	9.0	9.0	9.0	9.0
p07.pddl	14.0	14.0	14.0	14.0	14.0

$cost(\pi)$-*storage*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	3.0	3.0	3.0	3.0	3.0
p02.pddl	3.0	3.0	3.0	3.0	3.0
p03.pddl	3.0	3.0	3.0	3.0	3.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	8.0	9.0	9.0	9.0	9.0
p06.pddl	8.0	9.0	9.0	9.0	9.0
p07.pddl	14.0	14.0	14.0	14.0	14.0

$cost(\pi)$-*storage*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	3.0	3.0	3.0	3.0	3.0
p02.pddl	3.0	3.0	3.0	3.0	3.0
p03.pddl	3.0	3.0	3.0	3.0	3.0
p04.pddl	8.0	8.0	8.0	8.0	8.0
p05.pddl	8.0	9.0	9.0	9.0	9.0
p06.pddl	8.0	9.0	9.0	9.0	9.0
p07.pddl	14.0	14.0	14.0	14.0	14.0

$cost(\pi)$-*termes-opt18-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36.0	40.0	36.0	36.0	36.0
p02.pddl	54.0	74.0	58.0	58.0	58.0
p11.pddl	66.0	90.0	86.0	86.0	86.0
p12.pddl	46.0	62.0	60.0	60.0	60.0
p17.pddl	116.0	164.0	168.0	164.0	164.0
p18.pddl	76.0	114.0	100.0	100.0	100.0

$cost(\pi)$-*termes-opt18-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36.0	36.0	36.0	36.0	36.0
p02.pddl	54.0	70.0	54.0	54.0	54.0
p11.pddl	66.0	84.0	98.0	90.0	90.0
p12.pddl	46.0	68.0	60.0	60.0	60.0
p17.pddl	116.0	168.0	210.0	174.0	174.0
p18.pddl	76.0	132.0	104.0	110.0	110.0

$cost(\pi)$-*termes-opt18-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36.0	40.0	36.0	36.0	36.0
p02.pddl	54.0	74.0	58.0	58.0	58.0
p11.pddl	66.0	90.0	86.0	86.0	86.0
p12.pddl	46.0	62.0	60.0	60.0	60.0
p17.pddl	116.0	164.0	168.0	164.0	164.0
p18.pddl	76.0	114.0	100.0	100.0	100.0

$cost(\pi)$-*termes-opt18-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	36.0	36.0	36.0	36.0	36.0
p02.pddl	54.0	70.0	54.0	54.0	54.0
p11.pddl	66.0	84.0	98.0	90.0	90.0
p12.pddl	46.0	68.0	60.0	60.0	60.0
p17.pddl	116.0	168.0	210.0	174.0	174.0
p18.pddl	76.0	132.0	104.0	110.0	110.0

$cost(\pi)$-*tpp*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5.0	5.0	5.0	5.0	5.0
p02.pddl	8.0	10.0	10.0	10.0	10.0
p03.pddl	11.0	15.0	15.0	15.0	15.0
p04.pddl	14.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*tpp*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5.0	5.0	5.0	5.0	5.0
p02.pddl	8.0	8.0	8.0	8.0	8.0
p03.pddl	11.0	11.0	11.0	11.0	11.0
p04.pddl	14.0	14.0	14.0	14.0	14.0

$cost(\pi)$-*tpp*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5.0	5.0	5.0	5.0	5.0
p02.pddl	8.0	10.0	10.0	10.0	10.0
p03.pddl	11.0	15.0	15.0	15.0	15.0
p04.pddl	14.0	20.0	20.0	20.0	20.0

$cost(\pi)$-*tpp*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	5.0	5.0	5.0	5.0	5.0
p02.pddl	8.0	8.0	8.0	8.0	8.0
p03.pddl	11.0	11.0	11.0	11.0	11.0
p04.pddl	14.0	14.0	14.0	14.0	14.0

$cost(\pi)$-*transport-opt08-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	54.0	126.0	126.0	126.0	126.0
p02.pddl	131.0	131.0	295.0	131.0	295.0

p03.pddl	262.0	287.0	330.0	287.0	330.0
p11.pddl	456.0	456.0	878.0	456.0	878.0
p13.pddl	553.0	626.0	1630.0	626.0	1630.0
p21.pddl	478.0	636.0	636.0	636.0	636.0
p23.pddl	632.0	1002.0	1102.0	1002.0	1102.0

$cost(\pi)$-*transport-opt08-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	54.0	126.0	54.0	54.0	54.0
p02.pddl	131.0	131.0	131.0	131.0	131.0
p03.pddl	262.0	474.0	354.0	502.0	502.0
p11.pddl	456.0	456.0	456.0	456.0	456.0
p13.pddl	553.0	950.0	901.0	1008.0	1008.0
p21.pddl	478.0	478.0	478.0	478.0	478.0
p23.pddl	632.0	1026.0	654.0	774.0	774.0

$cost(\pi)$-*transport-opt08-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	54.0	126.0	126.0	126.0	126.0
p02.pddl	131.0	131.0	131.0	131.0	131.0
p03.pddl	262.0	330.0	330.0	330.0	330.0
p11.pddl	456.0	456.0	456.0	456.0	456.0
p13.pddl	577.0	1202.0	1202.0	1202.0	1202.0
p21.pddl	478.0	636.0	636.0	636.0	636.0
p23.pddl	630.0	1102.0	1102.0	1102.0	1102.0

$cost(\pi)$-*transport-opt08-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	54.0	54.0	54.0	54.0	54.0
p02.pddl	131.0	131.0	131.0	131.0	131.0
p03.pddl	262.0	392.0	392.0	392.0	392.0
p11.pddl	456.0	456.0	456.0	456.0	456.0
p13.pddl	577.0	580.0	580.0	580.0	580.0

p21.pddl	478.0	478.0	478.0	478.0	478.0
p23.pddl	630.0	730.0	730.0	730.0	730.0

$cost(\pi)$-*transport-opt11-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	632.0	1002.0	1102.0	1002.0	1102.0
p02.pddl	262.0	287.0	330.0	287.0	330.0
p04.pddl	553.0	626.0	1630.0	626.0	1630.0

$cost(\pi)$-*transport-opt11-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	632.0	1026.0	654.0	774.0	774.0
p02.pddl	262.0	474.0	354.0	502.0	502.0
p04.pddl	553.0	950.0	901.0	1008.0	1008.0

$cost(\pi)$-*transport-opt11-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	630.0	1102.0	1102.0	1102.0	1102.0
p02.pddl	262.0	330.0	330.0	330.0	330.0
p04.pddl	577.0	1202.0	1202.0	1202.0	1202.0

$cost(\pi)$-*transport-opt11-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	630.0	730.0	730.0	730.0	730.0
p02.pddl	262.0	392.0	392.0	392.0	392.0
p04.pddl	577.0	580.0	580.0	580.0	580.0

$cost(\pi)$-*transport-opt14-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	967.0	1074.0	2024.0	1074.0	2024.0

$cost(\pi)$-*transport-opt14-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	967.0	1133.0	1080.0	1206.0	1206.0

$cost(\pi)$-*transport-opt14-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	967.0	1074.0	1074.0	1074.0	1074.0

$cost(\pi)$-*transport-opt14-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	967.0	1107.0	1700.0	1700.0	1700.0

$cost(\pi)$-*trucks-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13.0	14.0	14.0	14.0	14.0
p02.pddl	17.0	18.0	18.0	18.0	18.0
p03.pddl	20.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*trucks-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13.0	15.0	14.0	14.0	14.0
p02.pddl	17.0	18.0	17.0	18.0	18.0
p03.pddl	20.0	24.0	23.0	24.0	24.0

$cost(\pi)$-*trucks-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13.0	14.0	14.0	14.0	14.0
p02.pddl	17.0	18.0	18.0	18.0	18.0
p03.pddl	20.0	24.0	24.0	24.0	24.0

$cost(\pi)$-*trucks-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	13.0	15.0	14.0	14.0	14.0
p02.pddl	17.0	18.0	17.0	18.0	18.0
p03.pddl	20.0	24.0	23.0	24.0	24.0

$cost(\pi)$-*visitall-opt11-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
problem02-full.pddl	3.0	3.0	3.0	3.0	3.0
problem02-half.pddl	1.0	1.0	1.0	1.0	1.0
problem03-full.pddl	8.0	8.0	8.0	8.0	8.0
problem03-half.pddl	6.0	6.0	6.0	6.0	6.0
problem04-full.pddl	15.0	15.0	15.0	15.0	15.0
problem04-half.pddl	11.0	11.0	11.0	11.0	11.0
problem05-half.pddl	18.0	21.0	21.0	21.0	21.0
problem06-half.pddl	23.0	29.0	29.0	29.0	29.0

$cost(\pi)$-*visitall-opt11-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
problem02-full.pddl	3.0	3.0	3.0	3.0	3.0
problem02-half.pddl	1.0	1.0	1.0	1.0	1.0
problem03-full.pddl	8.0	8.0	8.0	8.0	8.0
problem03-half.pddl	6.0	6.0	6.0	6.0	6.0
problem04-full.pddl	15.0	15.0	15.0	15.0	15.0
problem04-half.pddl	11.0	11.0	11.0	11.0	11.0
problem05-half.pddl	18.0	19.0	19.0	19.0	19.0
problem06-half.pddl	23.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*visitall-opt11-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
problem02-full.pddl	3.0	3.0	3.0	3.0	3.0
problem02-half.pddl	1.0	1.0	1.0	1.0	1.0
problem03-full.pddl	8.0	8.0	8.0	8.0	8.0

problem03-half.pddl	6.0	6.0	6.0	6.0	6.0
problem04-full.pddl	15.0	15.0	15.0	15.0	15.0
problem04-half.pddl	11.0	11.0	11.0	11.0	11.0
problem05-half.pddl	18.0	21.0	21.0	21.0	21.0
problem06-half.pddl	23.0	29.0	29.0	29.0	29.0

$cost(\pi)$-*visitall-opt11-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
problem02-full.pddl	3.0	3.0	3.0	3.0	3.0
problem02-half.pddl	1.0	1.0	1.0	1.0	1.0
problem03-full.pddl	8.0	8.0	8.0	8.0	8.0
problem03-half.pddl	6.0	6.0	6.0	6.0	6.0
problem04-full.pddl	15.0	15.0	15.0	15.0	15.0
problem04-half.pddl	11.0	11.0	11.0	11.0	11.0
problem05-half.pddl	18.0	19.0	19.0	19.0	19.0
problem06-half.pddl	23.0	23.0	23.0	23.0	23.0

$cost(\pi)$-*visitall-opt14-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	21.0	22.0	22.0	22.0	22.0
p-05-6.pddl	25.0	29.0	29.0	29.0	29.0

$cost(\pi)$-*visitall-opt14-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	21.0	22.0	22.0	22.0	22.0
p-05-6.pddl	25.0	25.0	25.0	25.0	25.0

$cost(\pi)$-*visitall-opt14-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	21.0	22.0	22.0	22.0	22.0
p-05-6.pddl	25.0	29.0	29.0	29.0	29.0

$cost(\pi)$-*visitall-opt14-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p-05-5.pddl	21.0	22.0	22.0	22.0	22.0
p-05-6.pddl	25.0	25.0	25.0	25.0	25.0

$cost(\pi)$-*woodworking-opt08-strips*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	95.0	95.0	95.0	95.0	95.0

$cost(\pi)$-*woodworking-opt08-strips*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	95.0	95.0	95.0	95.0	95.0

$cost(\pi)$-*woodworking-opt08-strips*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	105.0	105.0	105.0	105.0	105.0

$cost(\pi)$-*woodworking-opt08-strips*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	105.0	105.0	105.0	105.0	105.0

$cost(\pi)$-*zenotravel*-Normal-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	6.0	6.0	6.0	6.0	6.0
p03.pddl	6.0	6.0	6.0	6.0	6.0
p04.pddl	8.0	11.0	11.0	11.0	11.0
p05.pddl	11.0	14.0	14.0	14.0	14.0
p06.pddl	11.0	14.0	14.0	14.0	14.0
p07.pddl	15.0	21.0	16.0	19.0	19.0

$cost(\pi)$-*zenotravel*-Normal-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	6.0	6.0	6.0	6.0	6.0
p03.pddl	6.0	6.0	6.0	6.0	6.0
p04.pddl	8.0	9.0	8.0	8.0	8.0
p05.pddl	11.0	14.0	16.0	11.0	11.0
p06.pddl	11.0	14.0	12.0	12.0	12.0
p07.pddl	15.0	16.0	16.0	16.0	16.0

$cost(\pi)$-*zenotravel*-Unitary-*sys2*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	6.0	6.0	6.0	6.0	6.0
p03.pddl	6.0	6.0	6.0	6.0	6.0
p04.pddl	8.0	11.0	11.0	11.0	11.0
p05.pddl	11.0	14.0	14.0	14.0	14.0
p06.pddl	11.0	14.0	14.0	14.0	14.0
p07.pddl	15.0	21.0	16.0	19.0	19.0

$cost(\pi)$-*zenotravel*-Unitary-*sys4*

$cost(\pi)$	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	1.0	1.0	1.0	1.0	1.0
p02.pddl	6.0	6.0	6.0	6.0	6.0
p03.pddl	6.0	6.0	6.0	6.0	6.0
p04.pddl	8.0	9.0	8.0	8.0	8.0
p05.pddl	11.0	14.0	16.0	11.0	11.0
p06.pddl	11.0	14.0	12.0	12.0	12.0
p07.pddl	15.0	16.0	16.0	16.0	16.0

Total time-*blocks*-Normal-*sys2*

Total time		h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

	h^*				
probBLOCKS-4-0.pddl	0.01	0.01	0.01	0.01	0.0115353
probBLOCKS-4-1.pddl	0.01	0.01	0.01	0.01	0.0183004
probBLOCKS-4-2.pddl	0.01	0.01	0.01	0.01	0.0112869
probBLOCKS-5-0.pddl	0.063944	0.01	0.01	0.01	0.0199639
probBLOCKS-5-1.pddl	0.0672906	0.01	0.01	0.0116135	0.0556788
probBLOCKS-5-2.pddl	0.0639576	0.01	0.01	0.0114837	0.0509059
probBLOCKS-6-0.pddl	2.08714	0.01	0.01	0.026498	0.302755
probBLOCKS-6-1.pddl	2.13851	0.01	0.01	0.0111768	0.0261292
probBLOCKS-6-2.pddl	2.10703	0.01	0.0119828	0.0329829	0.266781

Total time-*blocks*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probBLOCKS-4-0.pddl	0.01	0.01	0.01	0.0155474	0.026572
probBLOCKS-4-1.pddl	0.01	0.01	0.01	0.0190754	0.0347709
probBLOCKS-4-2.pddl	0.01	0.0116342	0.0159559	0.0123443	0.02516
probBLOCKS-5-0.pddl	0.063944	0.0279768	0.027997	0.0439987	0.103257
probBLOCKS-5-1.pddl	0.0672906	0.0262984	0.0315735	0.0556646	0.183282
probBLOCKS-5-2.pddl	0.0639576	0.027101	0.0439841	0.0603715	0.214674
probBLOCKS-6-0.pddl	2.08714	0.0679563	0.207728	0.359494	1.7867
probBLOCKS-6-1.pddl	2.13851	0.0679437	0.07982	0.0935497	0.246648
probBLOCKS-6-2.pddl	2.10703	0.0639564	0.139895	0.365346	1.79415

Total time-*blocks*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probBLOCKS-4-0.pddl	0.01	0.01	0.01	0.01	0.0154713
probBLOCKS-4-1.pddl	0.01	0.01	0.01	0.01	0.0194851
probBLOCKS-4-2.pddl	0.01	0.01	0.01	0.01	0.0155985
probBLOCKS-5-0.pddl	0.0639473	0.01	0.01	0.01	0.0271208
probBLOCKS-5-1.pddl	0.0596962	0.01	0.01	0.01	0.0476684
probBLOCKS-5-2.pddl	0.0599597	0.01	0.01	0.0116067	0.0556445
probBLOCKS-6-0.pddl	2.11477	0.01	0.01	0.0269525	0.366285
probBLOCKS-6-1.pddl	2.08687	0.01	0.01	0.0115556	0.0294465
probBLOCKS-6-2.pddl	2.13872	0.01	0.01	0.0339371	0.26764

Total time-*blocks*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probBLOCKS-4-0.pddl	0.01	0.0115205	0.0132894	0.0138949	0.0314625
probBLOCKS-4-1.pddl	0.01	0.01	0.01	0.0188791	0.0361689
probBLOCKS-4-2.pddl	0.01	0.01	0.01	0.0142284	0.0232212
probBLOCKS-5-0.pddl	0.0639473	0.0239795	0.0279905	0.0454436	0.0956121
probBLOCKS-5-1.pddl	0.0596962	0.0239733	0.0359651	0.0555066	0.173706
probBLOCKS-5-2.pddl	0.0599597	0.023981	0.0399682	0.0578988	0.227095
probBLOCKS-6-0.pddl	2.11477	0.0719399	0.23972	0.360725	1.90592
probBLOCKS-6-1.pddl	2.08687	0.0676262	0.0759208	0.0996319	0.241905
probBLOCKS-6-2.pddl	2.13872	0.0679548	0.111885	0.335801	1.80606

Total time-*depot*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.171821	0.01	0.01	0.0101042	0.0277457

Total time-*depot*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.171821	0.046394	0.0676211	0.0679235	0.203241

Total time-*depot*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.167884	0.01	0.01	0.01	0.0269436

Total time-*depot*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.167884	0.0439946	0.0639493	0.095745	0.191869

Total time-*driverlog*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.0119894	0.01	0.01	0.01	0.0277091

p02.pddl	0.0679617	0.01	0.01	0.0197793	0.0978496
p03.pddl	0.0599374	0.01	0.01	0.0184453	0.0704187
p04.pddl	2.70299	0.01	0.01	0.0302843	0.139817
p05.pddl	21.518	0.01	0.0119904	0.166164	0.642414

Total time-*driverlog*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0119894	0.01	0.01	0.0145224	0.041891
p02.pddl	0.0679617	0.0159894	0.0225071	0.0399696	0.241564
p03.pddl	0.0599374	0.0119927	0.0158461	0.0267373	0.0827073
p04.pddl	2.70299	0.0267341	0.0556398	0.0597569	0.335696
p05.pddl	21.518	0.0359896	0.127372	0.0994843	0.57932

Total time-*driverlog*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0119847	0.01	0.01	0.01	0.0267839
p02.pddl	0.0639571	0.01	0.0119808	0.0262572	0.0954176
p03.pddl	0.0639331	0.01	0.01	0.0119598	0.0755847
p04.pddl	2.88908	0.01	0.01	0.0299637	0.141991
p05.pddl	20.9498	0.01	0.0199751	0.155731	0.66735

Total time-*driverlog*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0119847	0.01	0.0119901	0.0145507	0.0390667
p02.pddl	0.0639571	0.0119781	0.0238242	0.0359388	0.203421
p03.pddl	0.0639331	0.0151848	0.0199966	0.027543	0.0875082
p04.pddl	2.88908	0.026646	0.0509891	0.0636287	0.319544
p05.pddl	20.9498	0.035954	0.111881	0.0959498	0.54371

Total time-*elevators-opt08-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p03.pddl	14.9872	0.391622	0.943373	3.92005	31.8594

p11.pddl	5.91518	0.186192 0.638751 5.67629 73.4394		

Total time-*elevators-opt08-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	14.9872	0.175899	0.295876	0.198808	0.615314
p11.pddl	5.91518	0.215727	0.407847	0.227179	1.26177

Total time-*elevators-opt08-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	13.274	0.01	0.0119874	0.0313729	0.138405
p11.pddl	4.85031	0.01	0.0239766	0.0434759	0.214247

Total time-*elevators-opt08-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p03.pddl	13.274	0.131943	0.243922	0.255818	1.02708
p11.pddl	4.85031	0.115949	0.215871	0.168051	0.55593

Total time-*elevators-opt11-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5.7789	0.259503	0.603758	5.74308	72.8333
p04.pddl	15.0529	0.382504	0.914604	3.79753	30.2031

Total time-*elevators-opt11-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5.7789	0.207846	0.359831	0.218362	1.29343
p04.pddl	15.0529	0.175848	0.31578	0.206613	0.620671

Total time-*elevators-opt11-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5.36896	0.01	0.0159851	0.0439633	0.213843
p04.pddl	13.4405	0.01	0.0109365	0.0341194	0.200328

Total time-*elevators-opt11-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	5.36896	0.115944	0.223489	0.166655	0.534901
p04.pddl	13.4405	0.139883	0.259876	0.195905	1.00465

Total time-*ged-opt14-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	0.151855	0.01	0.01	0.01	0.0101446
d-1-4.pddl	0.159877	0.01	0.01	0.01	0.01
d-2-1.pddl	0.155912	0.01	0.01	0.01	0.01

Total time-*ged-opt14-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	0.151855	0.0547199	0.0519696	0.0598208	0.068685
d-1-4.pddl	0.159877	0.047963	0.0519799	0.0557896	0.0599669
d-2-1.pddl	0.155912	0.0519624	0.055277	0.0637732	0.06686

Total time-*ged-opt14-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	0.159884	0.01	0.01	0.01	0.0119559
d-1-4.pddl	0.155712	0.01	0.01	0.01	0.0148709
d-2-1.pddl	0.155871	0.01	0.01	0.01	0.0110834

Total time-*ged-opt14-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
d-1-2.pddl	0.159884	0.0519635	0.0559644	0.0592472	0.0921133
d-1-4.pddl	0.155712	0.0559279	0.0558341	0.0577242	0.0986829
d-2-1.pddl	0.155871	0.0543092	0.0548251	0.0638994	0.0798833

Total time-*gripper*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

prob01.pddl	0.01	0.01	0.01	0.01	0.0234299
prob02.pddl	0.01	0.01	0.01	0.0156193	0.0514331
prob03.pddl	0.0319781	0.01	0.01	0.019993	0.113962
prob04.pddl	0.319677	0.01	0.01	0.0375325	0.154905
prob05.pddl	3.55352	0.01	0.0119845	0.0596456	0.2462

Total time-*gripper*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.0119913	0.0981133
prob02.pddl	0.01	0.0111453	0.0399692	0.0479754	0.482043
prob03.pddl	0.0319781	0.0235573	0.207424	0.159922	1.59424
prob04.pddl	0.319677	0.0519502	0.627731	0.451066	4.87129
prob05.pddl	3.55352	0.098649	1.53834	1.07681	12.9493

Total time-*gripper*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.01	0.022035
prob02.pddl	0.01	0.01	0.01	0.0154914	0.0551797
prob03.pddl	0.0279645	0.01	0.01	0.0240012	0.107474
prob04.pddl	0.331769	0.01	0.01	0.0397175	0.159739
prob05.pddl	3.57368	0.01	0.0159659	0.0589354	0.250437

Total time-*gripper*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.0190882	0.0914779
prob02.pddl	0.01	0.01	0.0359627	0.0555406	0.487193
prob03.pddl	0.0279645	0.0199837	0.203846	0.163484	1.6004
prob04.pddl	0.331769	0.0719341	0.699499	0.45166	4.8921
prob05.pddl	3.57368	0.103891	1.6391	1.1147	12.7418

Total time-*hiking-opt14-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

ptesting-1-2-3.pddl	0.01	0.01	0.01	0.0216632	0.0736954
ptesting-1-2-4.pddl	0.01	0.01	0.0119993	0.049722	0.278394
ptesting-1-2-5.pddl	0.01	0.01	0.0279883	0.123918	0.834986
ptesting-1-2-7.pddl	0.0319059	0.0119875	0.187847	0.60524	3.69192
ptesting-1-2-8.pddl	0.0639741	0.011993	0.430763	1.21712	7.09281
ptesting-2-2-3.pddl	0.155861	0.011981	0.119916	0.366259	2.96217
ptesting-2-2-4.pddl	2.38662	0.0194342	0.834301	1.75028	12.023
ptesting-2-2-5.pddl	20.3064	0.039274	3.29479	5.80007	32.4335
ptesting-2-2-6.pddl	118.256	0.0668101	5.57032	8.43486	33.876
ptesting-2-3-4.pddl	15.3129	0.0439709	1.56643	2.71811	18.5305
ptesting-2-3-5.pddl	173.125	0.0759499	6.64918	9.64735	49.653
ptesting-2-4-3.pddl	2.38928	0.0306097	0.6237	1.36706	14.4222
ptesting-2-4-4.pddl	74.1214	0.0679449	3.24325	5.07766	37.9928

Total time-*hiking-opt14-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	0.01	0.01	0.0107205	0.0197195	0.105998
ptesting-1-2-4.pddl	0.01	0.01	0.0205257	0.0350119	0.367864
ptesting-1-2-5.pddl	0.01	0.0112038	0.071965	0.0845699	0.98854
ptesting-1-2-7.pddl	0.0319059	0.0267697	0.539751	0.320053	3.86074
ptesting-1-2-8.pddl	0.0639741	0.0359654	1.10701	0.581461	7.60705
ptesting-2-2-3.pddl	0.155861	0.0791165	2.94159	0.883799	17.6541
ptesting-2-2-4.pddl	2.38662	0.155862	13.7604	3.81038	43.747
ptesting-2-2-5.pddl	20.3064	0.28777	39.9609	20.0006	109.188
ptesting-2-2-6.pddl	118.256	0.491595	142.614	44.1818	235.966
ptesting-2-3-4.pddl	15.3129	0.279523	32.9538	9.71761	120.2
ptesting-2-3-5.pddl	173.125	0.527554	299.47	76.014	381.305
ptesting-2-4-3.pddl	2.38928	0.230377	42.4229	10.0471	133.959
ptesting-2-4-4.pddl	74.1214	0.427511	111.472	37.6365	287.37

Total time-*hiking-opt14-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
ptesting-1-2-3.pddl	0.01	0.01	0.01	0.0185105	0.0756

ptesting-1-2-4.pddl	0.01	0.01	0.01	0.0463469	0.267128
ptesting-1-2-5.pddl	0.01	0.01	0.027967	0.131268	0.756096
ptesting-1-2-7.pddl	0.0319688	0.0119613	0.178867	0.612586	3.70746
ptesting-1-2-8.pddl	0.0599629	0.0181035	0.419796	1.43056	7.07575
ptesting-2-2-3.pddl	0.155913	0.0119804	0.11595	0.399077	2.97768
ptesting-2-2-4.pddl	2.38601	0.0239742	0.838506	1.89675	11.8719
ptesting-2-2-5.pddl	20.4025	0.035979	4.02496	5.79981	32.213
ptesting-2-2-6.pddl	114.159	0.0679117	6.51586	8.49432	34.7565
ptesting-2-3-4.pddl	14.7841	0.0359789	1.55933	2.67056	18.4606
ptesting-2-3-5.pddl	170.732	0.0759606	6.19779	9.395	50.1172
ptesting-2-4-3.pddl	2.32315	0.0239601	0.634868	1.53891	14.4349
ptesting-2-4-4.pddl	74.1787	0.0628341	3.9458	5.2728	37.4781

Total time-*hiking-opt14-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
ptesting-1-2-3.pddl	0.01	0.01	0.01	0.0154971	0.0836576
ptesting-1-2-4.pddl	0.01	0.01	0.022677	0.036091	0.351517
ptesting-1-2-5.pddl	0.01	0.0119869	0.0797697	0.0836805	0.88742
ptesting-1-2-7.pddl	0.0319688	0.0239842	0.539675	0.313324	4.02742
ptesting-1-2-8.pddl	0.0599629	0.0362063	1.15155	0.56765	7.20069
ptesting-2-2-3.pddl	0.155913	0.0759112	3.3543	1.01883	17.5379
ptesting-2-2-4.pddl	2.38601	0.15536	15.3485	4.61623	44.155
ptesting-2-2-5.pddl	20.4025	0.299466	39.96	12.9157	111.176
ptesting-2-2-6.pddl	114.159	0.503619	134.781	49.2089	238.607
ptesting-2-3-4.pddl	14.7841	0.275858	30.4665	12.555	118.033
ptesting-2-3-5.pddl	170.732	0.519678	304.75	73.5662	414.231
ptesting-2-4-3.pddl	2.32315	0.218414	44.1774	10.6988	134.887
ptesting-2-4-4.pddl	74.1787	0.419709	110.732	39.0429	283.342

Total time-*logistics00*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	0.01	0.01	0.01	0.0154839	0.0914061
probLOGISTICS-4-1.pddl	0.01	0.01	0.01	0.01	0.0719475

probLOGISTICS-4-2.pddl	0.01	0.01	0.01	0.0108509	0.0354813
probLOGISTICS-5-0.pddl	0.0479781	0.01	0.01	0.0180433	0.105456
probLOGISTICS-5-1.pddl	0.0479394	0.01	0.01	0.01	0.0681246
probLOGISTICS-5-2.pddl	0.0479235	0.01	0.01	0.01	0.0276823
probLOGISTICS-6-0.pddl	0.37103	0.01	0.01	0.0119799	0.0981696
probLOGISTICS-6-1.pddl	0.370623	0.01	0.01	0.01	0.0497331
probLOGISTICS-6-2.pddl	0.378888	0.01	0.01	0.0184864	0.105939
probLOGISTICS-6-9.pddl	0.379614	0.01	0.01	0.0200597	0.103438

Total time-*logistics00*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	0.01	0.01	0.01	0.0220716	0.106887
probLOGISTICS-4-1.pddl	0.01	0.01	0.01	0.0229774	0.0979886
probLOGISTICS-4-2.pddl	0.01	0.01	0.01	0.0145402	0.047947
probLOGISTICS-5-0.pddl	0.0479781	0.015351	0.0188066	0.0359633	0.227737
probLOGISTICS-5-1.pddl	0.0479394	0.0147577	0.0119651	0.0315172	0.139508
probLOGISTICS-5-2.pddl	0.0479235	0.0145134	0.015995	0.0218408	0.049243
probLOGISTICS-6-0.pddl	0.37103	0.0159854	0.0319637	0.0515748	0.254247
probLOGISTICS-6-1.pddl	0.370623	0.0159974	0.0189632	0.0350856	0.0998737
probLOGISTICS-6-2.pddl	0.378888	0.019261	0.0319589	0.054208	0.275401
probLOGISTICS-6-9.pddl	0.379614	0.0185137	0.0239898	0.046562	0.26583

Total time-*logistics00*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
probLOGISTICS-4-0.pddl	0.01	0.01	0.01	0.0113951	0.0874807
probLOGISTICS-4-1.pddl	0.01	0.01	0.01	0.011605	0.0754825
probLOGISTICS-4-2.pddl	0.01	0.01	0.01	0.01	0.0352003
probLOGISTICS-5-0.pddl	0.0479672	0.01	0.01	0.0152607	0.119032
probLOGISTICS-5-1.pddl	0.0479681	0.01	0.01	0.0115982	0.0673429
probLOGISTICS-5-2.pddl	0.0506202	0.01	0.01	0.01	0.0311192
probLOGISTICS-6-0.pddl	0.363804	0.01	0.01	0.0197323	0.0928618
probLOGISTICS-6-1.pddl	0.387612	0.01	0.01	0.01	0.049558
probLOGISTICS-6-2.pddl	0.366437	0.01	0.01	0.0196111	0.110543

probLOGISTICS-6-9.pddl	0.42333	0.01	0.01	0.0164329	0.107576

Total time-*logistics00*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
probLOGISTICS-4-0.pddl	0.01	0.01	0.01	0.0230945	0.119377
probLOGISTICS-4-1.pddl	0.01	0.01	0.0104313	0.0199642	0.107429
probLOGISTICS-4-2.pddl	0.01	0.01	0.0112041	0.0177449	0.0549114
probLOGISTICS-5-0.pddl	0.0479672	0.0119915	0.018859	0.0379772	0.239536
probLOGISTICS-5-1.pddl	0.0479681	0.0159676	0.0159975	0.0307651	0.135499
probLOGISTICS-5-2.pddl	0.0506202	0.01	0.0119878	0.0253265	0.0476382
probLOGISTICS-6-0.pddl	0.363804	0.0199795	0.0319558	0.0494282	0.235887
probLOGISTICS-6-1.pddl	0.387612	0.0199512	0.0239784	0.034605	0.132125
probLOGISTICS-6-2.pddl	0.366437	0.0159927	0.0319204	0.0512711	0.286733
probLOGISTICS-6-9.pddl	0.42333	0.0233016	0.0279787	0.038797	0.255461

Total time-*logistics98*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	1.90599	0.01	0.01	0.0396621	0.127757
prob32.pddl	0.187893	0.01	0.01	0.0205511	0.125689

Total time-*logistics98*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	1.90599	0.0679435	0.0956849	0.100093	0.303559
prob32.pddl	0.187893	0.0314999	0.0519559	0.0796134	0.359508

Total time-*logistics98*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob31.pddl	1.81863	0.01	0.01	0.0358039	0.128238
prob32.pddl	0.187933	0.01	0.01	0.0313263	0.134725

Total time-*logistics98*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}

prob31.pddl	1.81863	0.067941	0.0991617	0.102937	0.345457
prob32.pddl	0.187933	0.03994	0.0637589	0.0752976	0.347769

Total time-*miconic*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	0.01	0.01	0.01	0.01	0.01
s1-1.pddl	0.01	0.01	0.01	0.01	0.01
s1-2.pddl	0.01	0.01	0.01	0.01	0.01
s1-3.pddl	0.01	0.01	0.01	0.01	0.01
s1-4.pddl	0.01	0.01	0.01	0.01	0.01
s10-0.pddl	2.98228	0.01	0.0148305	0.0718657	0.327674
s10-1.pddl	3.03273	0.01	0.0159517	0.0466907	0.29522
s10-2.pddl	3.07729	0.01	0.0199932	0.0819041	0.457226
s10-3.pddl	3.04191	0.01	0.0159737	0.0553683	0.336271
s10-4.pddl	3.07223	0.01	0.0119892	0.046424	0.270995
s11-0.pddl	13.9679	0.0119775	0.0239904	0.108044	0.722351
s11-1.pddl	13.895	0.01	0.0199611	0.100646	0.550836
s11-2.pddl	13.7942	0.01	0.0225519	0.0991516	0.637016
s11-3.pddl	14.5655	0.01	0.0212656	0.0861739	0.585992
s11-4.pddl	14.4685	0.0159579	0.023985	0.0792201	0.501991
s2-0.pddl	0.01	0.01	0.01	0.01	0.0106907
s2-1.pddl	0.01	0.01	0.01	0.01	0.0117709
s2-2.pddl	0.01	0.01	0.01	0.01	0.0109226
s2-3.pddl	0.01	0.01	0.01	0.01	0.0111637
s2-4.pddl	0.01	0.01	0.01	0.01	0.0109423
s3-0.pddl	0.01	0.01	0.01	0.01	0.0194442
s3-1.pddl	0.01	0.01	0.01	0.01	0.0196024
s3-2.pddl	0.01	0.01	0.01	0.01	0.0154475
s3-3.pddl	0.01	0.01	0.01	0.01	0.0193217
s3-4.pddl	0.01	0.01	0.01	0.01	0.015539
s4-0.pddl	0.01	0.01	0.01	0.0101152	0.0265683
s4-1.pddl	0.01	0.01	0.01	0.01	0.0292194
s4-2.pddl	0.01	0.01	0.01	0.01	0.0275318
s4-3.pddl	0.01	0.01	0.01	0.0106681	0.0339804

s4-4.pddl	0.01	0.01	0.01	0.01	0.0314935
s5-0.pddl	0.01	0.01	0.01	0.0154818	0.0479394
s5-1.pddl	0.01	0.01	0.01	0.015438	0.047588
s5-2.pddl	0.01	0.01	0.01	0.0153991	0.0515493
s5-3.pddl	0.01	0.01	0.01	0.0108944	0.0399742
s5-4.pddl	0.01	0.01	0.01	0.0191033	0.0630161
s6-0.pddl	0.01	0.01	0.01	0.0221926	0.0664242
s6-1.pddl	0.01	0.01	0.01	0.0200913	0.0585533
s6-2.pddl	0.0119865	0.01	0.01	0.0197023	0.0580594
s6-3.pddl	0.01	0.01	0.01	0.0225562	0.0719373
s6-4.pddl	0.0115214	0.01	0.01	0.0159839	0.0635515
s7-0.pddl	0.0279723	0.01	0.01	0.0277509	0.0837136
s7-1.pddl	0.0270267	0.01	0.01	0.0317059	0.106848
s7-2.pddl	0.0268179	0.01	0.01	0.0261529	0.10712
s7-3.pddl	0.027988	0.01	0.01	0.031698	0.122812
s7-4.pddl	0.0359715	0.01	0.01	0.0321225	0.110745
s8-0.pddl	0.127927	0.01	0.01	0.0475514	0.195901
s8-1.pddl	0.135829	0.01	0.01	0.0344575	0.16383
s8-2.pddl	0.131923	0.01	0.0119882	0.0478861	0.167712
s8-3.pddl	0.131866	0.01	0.0111868	0.0343409	0.171531
s8-4.pddl	0.130672	0.01	0.01	0.0398779	0.178577
s9-0.pddl	0.62749	0.01	0.0119929	0.0559423	0.291225
s9-1.pddl	0.647479	0.01	0.0116977	0.0556613	0.277715
s9-2.pddl	0.595807	0.01	0.0119874	0.058182	0.32028
s9-3.pddl	0.595761	0.01	0.0119858	0.0353749	0.185642
s9-4.pddl	0.635553	0.01	0.0119758	0.0496283	0.206941

Total time-*miconic*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
s1-0.pddl	0.01	0.01	0.01	0.01	0.01
s1-1.pddl	0.01	0.01	0.01	0.01	0.01
s1-2.pddl	0.01	0.01	0.01	0.01	0.01
s1-3.pddl	0.01	0.01	0.01	0.01	0.01
s1-4.pddl	0.01	0.01	0.01	0.01	0.01

s10-0.pddl	2.98228	0.0352053	0.407762	0.386484	5.09691
s10-1.pddl	3.03273	0.0399518	0.399863	0.211882	3.51964
s10-2.pddl	3.07729	0.0439598	0.399535	0.397901	5.78326
s10-3.pddl	3.04191	0.0359688	0.439539	0.292345	3.79887
s10-4.pddl	3.07223	0.031989	0.403426	0.223169	4.13554
s11-0.pddl	13.9679	0.0552076	0.847281	0.947669	11.5778
s11-1.pddl	13.895	0.051941	0.791302	0.484066	7.07466
s11-2.pddl	13.7942	0.0519401	0.751562	0.615468	11.0625
s11-3.pddl	14.5655	0.0559542	0.730575	0.64342	9.84551
s11-4.pddl	14.4685	0.0519487	0.7033	0.901492	8.08986
s2-0.pddl	0.01	0.01	0.01	0.01	0.0141333
s2-1.pddl	0.01	0.01	0.01	0.01	0.0184344
s2-2.pddl	0.01	0.01	0.01	0.01	0.0187083
s2-3.pddl	0.01	0.01	0.01	0.01	0.01
s2-4.pddl	0.01	0.01	0.01	0.01	0.0180686
s3-0.pddl	0.01	0.01	0.01	0.01	0.0279862
s3-1.pddl	0.01	0.01	0.01	0.01	0.0319548
s3-2.pddl	0.01	0.01	0.01	0.01	0.0228
s3-3.pddl	0.01	0.01	0.01	0.01	0.0370859
s3-4.pddl	0.01	0.01	0.01	0.01	0.0314516
s4-0.pddl	0.01	0.01	0.01	0.0153381	0.0663864
s4-1.pddl	0.01	0.01	0.01	0.0136479	0.0754476
s4-2.pddl	0.01	0.01	0.01	0.01	0.070246
s4-3.pddl	0.01	0.01	0.01	0.0117041	0.0828478
s4-4.pddl	0.01	0.01	0.01	0.01	0.0786252
s5-0.pddl	0.01	0.01	0.011979	0.0234363	0.148672
s5-1.pddl	0.01	0.01	0.0119854	0.0217904	0.178499
s5-2.pddl	0.01	0.01	0.01	0.0119736	0.0891492
s5-3.pddl	0.01	0.01	0.01	0.01573	0.108894
s5-4.pddl	0.01	0.01	0.01	0.0159732	0.212064
s6-0.pddl	0.01	0.01	0.0159966	0.0308864	0.18693
s6-1.pddl	0.01	0.01	0.015987	0.0316753	0.291225
s6-2.pddl	0.0119865	0.01	0.0159576	0.0310265	0.283539
s6-3.pddl	0.01	0.0119882	0.0194752	0.0351359	0.327795

s6-4.pddl	0.0115214	0.01	0.0158164	0.0257284	0.243763
s7-0.pddl	0.0279723	0.01	0.0382323	0.0497532	0.435306
s7-1.pddl	0.0270267	0.01	0.0319837	0.057622	0.67722
s7-2.pddl	0.0268179	0.0110065	0.0399898	0.0516513	0.49072
s7-3.pddl	0.027988	0.01	0.0390365	0.0530034	0.52232
s7-4.pddl	0.0359715	0.01	0.0319824	0.0460308	0.557827
s8-0.pddl	0.127927	0.0159757	0.0914449	0.0996309	1.45895
s8-1.pddl	0.135829	0.019796	0.0909361	0.0816262	1.00997
s8-2.pddl	0.131923	0.0159996	0.091273	0.0999365	1.36708
s8-3.pddl	0.131866	0.0199707	0.0839162	0.0979687	1.26239
s8-4.pddl	0.130672	0.0158301	0.0954907	0.143431	1.36682
s9-0.pddl	0.62749	0.0268029	0.199866	0.219014	3.36203
s9-1.pddl	0.647479	0.0276389	0.203922	0.186954	2.61005
s9-2.pddl	0.595807	0.0239672	0.199875	0.199004	3.30909
s9-3.pddl	0.595761	0.0279648	0.191462	0.131805	1.93388
s9-4.pddl	0.635553	0.0279695	0.175867	0.14392	1.85101

Total time-*miconic*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	0.01	0.01	0.01	0.01	0.01
s1-1.pddl	0.01	0.01	0.01	0.01	0.01
s1-2.pddl	0.01	0.01	0.01	0.01	0.01
s1-3.pddl	0.01	0.01	0.01	0.01	0.01
s1-4.pddl	0.01	0.01	0.01	0.01	0.01
s10-0.pddl	3.01375	0.01	0.0199687	0.0683429	0.323535
s10-1.pddl	3.00476	0.01	0.0159923	0.0665024	0.283788
s10-2.pddl	2.99079	0.01	0.0119926	0.0820936	0.467658
s10-3.pddl	3.04426	0.01	0.0119826	0.0632627	0.33167
s10-4.pddl	3.01333	0.01	0.0199591	0.0445257	0.270273
s11-0.pddl	14.3276	0.01	0.0275506	0.102433	0.751408
s11-1.pddl	13.7301	0.01	0.0235111	0.0996282	0.536073
s11-2.pddl	14.5891	0.01	0.0232115	0.0941807	0.605746
s11-3.pddl	14.0665	0.01	0.0199745	0.104556	0.575325
s11-4.pddl	14.471	0.01	0.0199851	0.0865219	0.511896

s2-0.pddl	0.01	0.01	0.01	0.01	0.0108066
s2-1.pddl	0.01	0.01	0.01	0.01	0.01
s2-2.pddl	0.01	0.01	0.01	0.01	0.01
s2-3.pddl	0.01	0.01	0.01	0.01	0.0110149
s2-4.pddl	0.01	0.01	0.01	0.01	0.0153863
s3-0.pddl	0.01	0.01	0.01	0.01	0.0216448
s3-1.pddl	0.01	0.01	0.01	0.01	0.0195651
s3-2.pddl	0.01	0.01	0.01	0.01	0.0132033
s3-3.pddl	0.01	0.01	0.01	0.01	0.0119931
s3-4.pddl	0.01	0.01	0.01	0.01	0.0159934
s4-0.pddl	0.01	0.01	0.01	0.01	0.0294061
s4-1.pddl	0.01	0.01	0.01	0.01	0.0273546
s4-2.pddl	0.01	0.01	0.01	0.0117888	0.0259141
s4-3.pddl	0.01	0.01	0.01	0.0107803	0.0334496
s4-4.pddl	0.01	0.01	0.01	0.0110568	0.0312506
s5-0.pddl	0.01	0.01	0.01	0.0142259	0.0477831
s5-1.pddl	0.01	0.01	0.01	0.0154841	0.0471215
s5-2.pddl	0.01	0.01	0.01	0.0120048	0.0430572
s5-3.pddl	0.01	0.01	0.01	0.0115331	0.0426728
s5-4.pddl	0.01	0.01	0.01	0.0196447	0.0584702
s6-0.pddl	0.01	0.01	0.01	0.0255271	0.0636943
s6-1.pddl	0.01	0.01	0.01	0.022616	0.0620404
s6-2.pddl	0.01	0.01	0.01	0.0234035	0.055912
s6-3.pddl	0.01	0.01	0.01	0.0187216	0.0693967
s6-4.pddl	0.01	0.01	0.01	0.0190277	0.0636441
s7-0.pddl	0.0307023	0.01	0.01	0.0254998	0.0876638
s7-1.pddl	0.0319618	0.01	0.01	0.0297399	0.107019
s7-2.pddl	0.0279646	0.01	0.01	0.0313496	0.0955632
s7-3.pddl	0.0279942	0.01	0.01	0.0294099	0.115798
s7-4.pddl	0.0278078	0.01	0.01	0.0359485	0.107913
s8-0.pddl	0.122271	0.01	0.01	0.0477031	0.203322
s8-1.pddl	0.131665	0.01	0.01	0.0419054	0.166386
s8-2.pddl	0.130916	0.01	0.01	0.038409	0.155881
s8-3.pddl	0.134385	0.01	0.01	0.0387155	0.177457

s8-4.pddl	0.127872	0.01	0.0119847	0.0383252	0.179666
s9-0.pddl	0.634226	0.01	0.0119821	0.0596165	0.283785
s9-1.pddl	0.682853	0.01	0.01	0.0589115	0.298872
s9-2.pddl	0.677083	0.01	0.01	0.0558643	0.323728
s9-3.pddl	0.606938	0.01	0.01	0.0317262	0.180166
s9-4.pddl	0.575877	0.01	0.0105001	0.0511696	0.207911

Total time-*miconic*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
s1-0.pddl	0.01	0.01	0.01	0.01	0.01
s1-1.pddl	0.01	0.01	0.01	0.01	0.01
s1-2.pddl	0.01	0.01	0.01	0.01	0.01
s1-3.pddl	0.01	0.01	0.01	0.01	0.01
s1-4.pddl	0.01	0.01	0.01	0.01	0.01
s10-0.pddl	3.01375	0.035965	0.423752	0.388612	5.22637
s10-1.pddl	3.00476	0.035961	0.475577	0.223086	3.21061
s10-2.pddl	2.99079	0.0359581	0.410171	0.387961	5.59507
s10-3.pddl	3.04426	0.0399767	0.351714	0.294754	3.70933
s10-4.pddl	3.01333	0.0549853	0.434799	0.423687	4.06739
s11-0.pddl	14.3276	0.0519701	0.643547	1.16284	11.2579
s11-1.pddl	13.7301	0.0517592	0.814075	0.487068	7.40782
s11-2.pddl	14.5891	0.0559584	0.751675	0.543872	11.0267
s11-3.pddl	14.0665	0.0554516	0.819339	0.602984	9.71327
s11-4.pddl	14.471	0.055951	0.774901	1.07812	7.92795
s2-0.pddl	0.01	0.01	0.01	0.01	0.0142315
s2-1.pddl	0.01	0.01	0.01	0.01	0.0194915
s2-2.pddl	0.01	0.01	0.01	0.01	0.0179189
s2-3.pddl	0.01	0.01	0.01	0.01	0.0114441
s2-4.pddl	0.01	0.01	0.01	0.01	0.0184484
s3-0.pddl	0.01	0.01	0.01	0.01	0.0291464
s3-1.pddl	0.01	0.01	0.01	0.01	0.0347456
s3-2.pddl	0.01	0.01	0.01	0.01	0.0215271
s3-3.pddl	0.01	0.01	0.01	0.01	0.0355672
s3-4.pddl	0.01	0.01	0.01	0.01	0.032424

s4-0.pddl	0.01	0.01	0.01	0.0144642	0.0795839
s4-1.pddl	0.01	0.01	0.01	0.0139182	0.0733572
s4-2.pddl	0.01	0.01	0.01	0.01	0.0703549
s4-3.pddl	0.01	0.01	0.01	0.01381	0.0824885
s4-4.pddl	0.01	0.01	0.01	0.01	0.0713759
s5-0.pddl	0.01	0.01	0.0119989	0.0234497	0.206179
s5-1.pddl	0.01	0.01	0.01	0.022237	0.15136
s5-2.pddl	0.01	0.01	0.01	0.0119756	0.0799208
s5-3.pddl	0.01	0.01	0.01	0.0159652	0.102567
s5-4.pddl	0.01	0.01	0.01	0.0232888	0.211832
s6-0.pddl	0.01	0.011988	0.0188037	0.0277655	0.177784
s6-1.pddl	0.01	0.01	0.0159832	0.0304714	0.275785
s6-2.pddl	0.01	0.01	0.0185146	0.0307748	0.23438
s6-3.pddl	0.01	0.0119811	0.0159668	0.0315109	0.323603
s6-4.pddl	0.01	0.01	0.0157875	0.0341733	0.247589
s7-0.pddl	0.0307023	0.0119625	0.03594	0.0518973	0.473836
s7-1.pddl	0.0319618	0.0108207	0.0344015	0.0509687	0.658408
s7-2.pddl	0.0279646	0.01	0.0398373	0.0439559	0.491437
s7-3.pddl	0.0279942	0.0159752	0.0359531	0.051647	0.553579
s7-4.pddl	0.0278078	0.01142	0.0424741	0.0597022	0.57502
s8-0.pddl	0.122271	0.0189588	0.103918	0.107912	1.46282
s8-1.pddl	0.131665	0.016002	0.099895	0.0878683	0.995612
s8-2.pddl	0.130916	0.015973	0.0879097	0.103969	1.34671
s8-3.pddl	0.134385	0.0162131	0.0919058	0.0979469	1.33854
s8-4.pddl	0.127872	0.0159648	0.0919474	0.11179	1.3257
s9-0.pddl	0.634226	0.0264496	0.183911	0.203883	3.37779
s9-1.pddl	0.682853	0.0307767	0.21987	0.179806	2.66201
s9-2.pddl	0.677083	0.0239829	0.175889	0.191751	3.26203
s9-3.pddl	0.606938	0.0200013	0.198739	0.123793	2.04999
s9-4.pddl	0.575877	0.0267759	0.207904	0.146842	2.006

Total time-*movie*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.01	0.0153913

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob02.pddl	0.01	0.01	0.01	0.01	0.0154148
prob03.pddl	0.01	0.01	0.01	0.01	0.0140351
prob04.pddl	0.01	0.01	0.01	0.01	0.0188214
prob05.pddl	0.01	0.01	0.01	0.01	0.0193251
prob06.pddl	0.01	0.01	0.01	0.01	0.0109851
prob07.pddl	0.01	0.01	0.01	0.01	0.0119762
prob08.pddl	0.01	0.01	0.01	0.01	0.0159774
prob09.pddl	0.01	0.01	0.01	0.01	0.0195235
prob10.pddl	0.01	0.01	0.01	0.01	0.0163981
prob11.pddl	0.01	0.01	0.01	0.01	0.0195348
prob12.pddl	0.01	0.01	0.01	0.01	0.0138252
prob13.pddl	0.01	0.01	0.01	0.01	0.0181406
prob14.pddl	0.01	0.01	0.01	0.01	0.0149436
prob15.pddl	0.01	0.01	0.01	0.01	0.0195547
prob16.pddl	0.01	0.01	0.01	0.01	0.0149597
prob17.pddl	0.01	0.01	0.01	0.01	0.0184826
prob18.pddl	0.01	0.01	0.01	0.01	0.0142502
prob19.pddl	0.01	0.01	0.01	0.01	0.0196046
prob20.pddl	0.01	0.01	0.01	0.01	0.0192747
prob21.pddl	0.01	0.01	0.01	0.01	0.0177889
prob22.pddl	0.01	0.01	0.01	0.01	0.0146967
prob23.pddl	0.01	0.01	0.01	0.01	0.0155114
prob24.pddl	0.01	0.01	0.01	0.01	0.0191603
prob25.pddl	0.01	0.01	0.01	0.01	0.0187932
prob26.pddl	0.01	0.01	0.01	0.01	0.0157275
prob27.pddl	0.01	0.01	0.01	0.01	0.0137441
prob28.pddl	0.01	0.01	0.01	0.01	0.0185395
prob29.pddl	0.01	0.01	0.01	0.01	0.0183239
prob30.pddl	0.01	0.01	0.01	0.01	0.0196639

Total time-*movie*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.01	0.0133135
prob02.pddl	0.01	0.01	0.01	0.01	0.01

	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob03.pddl	0.01	0.01	0.01	0.01	0.0153098
prob04.pddl	0.01	0.01	0.01	0.01	0.0152612
prob05.pddl	0.01	0.01	0.01	0.01	0.0194428
prob06.pddl	0.01	0.01	0.01	0.01	0.0155726
prob07.pddl	0.01	0.01	0.01	0.01	0.0134087
prob08.pddl	0.01	0.01	0.01	0.01	0.0118566
prob09.pddl	0.01	0.01	0.01	0.01	0.0107447
prob10.pddl	0.01	0.01	0.01	0.01	0.019918
prob11.pddl	0.01	0.01	0.01	0.01	0.0145893
prob12.pddl	0.01	0.01	0.01	0.01	0.0187689
prob13.pddl	0.01	0.01	0.01	0.01	0.0194013
prob14.pddl	0.01	0.01	0.01	0.01	0.0178193
prob15.pddl	0.01	0.01	0.01	0.01	0.0153145
prob16.pddl	0.01	0.01	0.01	0.01	0.0182836
prob17.pddl	0.01	0.01	0.01	0.01	0.0114669
prob18.pddl	0.01	0.01	0.01	0.01	0.0117829
prob19.pddl	0.01	0.01	0.01	0.01	0.0157971
prob20.pddl	0.01	0.01	0.01	0.01	0.0156205
prob21.pddl	0.01	0.01	0.01	0.01	0.019708
prob22.pddl	0.01	0.01	0.01	0.01	0.0155405
prob23.pddl	0.01	0.01	0.01	0.01	0.0157868
prob24.pddl	0.01	0.01	0.01	0.01	0.0188931
prob25.pddl	0.01	0.01	0.01	0.01	0.0152663
prob26.pddl	0.01	0.01	0.01	0.01	0.0195585
prob27.pddl	0.01	0.01	0.01	0.01	0.0176745
prob28.pddl	0.01	0.01	0.01	0.01	0.0185109
prob29.pddl	0.01	0.01	0.01	0.01	0.0180602
prob30.pddl	0.01	0.01	0.01	0.01	0.0180215

Total time-*movie*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.01	0.0133186
prob02.pddl	0.01	0.01	0.01	0.01	0.014096
prob03.pddl	0.01	0.01	0.01	0.01	0.0145175

	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob04.pddl	0.01	0.01	0.01	0.01	0.0114697
prob05.pddl	0.01	0.01	0.01	0.01	0.01465
prob06.pddl	0.01	0.01	0.01	0.01	0.0149334
prob07.pddl	0.01	0.01	0.01	0.01	0.0116258
prob08.pddl	0.01	0.01	0.01	0.01	0.0191652
prob09.pddl	0.01	0.01	0.01	0.01	0.01387
prob10.pddl	0.01	0.01	0.01	0.01	0.0193045
prob11.pddl	0.01	0.01	0.01	0.01	0.0194915
prob12.pddl	0.01	0.01	0.01	0.01	0.0175456
prob13.pddl	0.01	0.01	0.01	0.01	0.0180939
prob14.pddl	0.01	0.01	0.01	0.01	0.0138942
prob15.pddl	0.01	0.01	0.01	0.01	0.0183428
prob16.pddl	0.01	0.01	0.01	0.01	0.011996
prob17.pddl	0.01	0.01	0.01	0.01	0.0190355
prob18.pddl	0.01	0.01	0.01	0.01	0.0155684
prob19.pddl	0.01	0.01	0.01	0.01	0.0150451
prob20.pddl	0.01	0.01	0.01	0.01	0.0145142
prob21.pddl	0.01	0.01	0.01	0.01	0.0159626
prob22.pddl	0.01	0.01	0.01	0.01	0.0200476
prob23.pddl	0.01	0.01	0.01	0.01	0.0119785
prob24.pddl	0.01	0.01	0.01	0.01	0.0196357
prob25.pddl	0.01	0.01	0.01	0.01	0.0138432
prob26.pddl	0.01	0.01	0.01	0.01	0.0186148
prob27.pddl	0.01	0.01	0.01	0.01	0.0195956
prob28.pddl	0.01	0.01	0.01	0.01	0.0190669
prob29.pddl	0.01	0.01	0.01	0.01	0.0175285
prob30.pddl	0.01	0.01	0.01	0.01	0.0112998

Total time-*movie*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
prob01.pddl	0.01	0.01	0.01	0.01	0.0136782
prob02.pddl	0.01	0.01	0.01	0.01	0.0146105
prob03.pddl	0.01	0.01	0.01	0.01	0.0165641
prob04.pddl	0.01	0.01	0.01	0.01	0.01

prob05.pddl	0.01	0.01	0.01	0.01	0.0119913
prob06.pddl	0.01	0.01	0.01	0.01	0.014116
prob07.pddl	0.01	0.01	0.01	0.01	0.0173
prob08.pddl	0.01	0.01	0.01	0.01	0.01841
prob09.pddl	0.01	0.01	0.01	0.01	0.0152321
prob10.pddl	0.01	0.01	0.01	0.01	0.0136517
prob11.pddl	0.01	0.01	0.01	0.01	0.0143174
prob12.pddl	0.01	0.01	0.01	0.01	0.0194054
prob13.pddl	0.01	0.01	0.01	0.01	0.0193978
prob14.pddl	0.01	0.01	0.01	0.01	0.0177511
prob15.pddl	0.01	0.01	0.01	0.01	0.0198733
prob16.pddl	0.01	0.01	0.01	0.01	0.0193557
prob17.pddl	0.01	0.01	0.01	0.01	0.0185518
prob18.pddl	0.01	0.01	0.01	0.01	0.0107106
prob19.pddl	0.01	0.01	0.01	0.01	0.0153729
prob20.pddl	0.01	0.01	0.01	0.01	0.0147965
prob21.pddl	0.01	0.01	0.01	0.01	0.018801
prob22.pddl	0.01	0.01	0.01	0.01	0.0144205
prob23.pddl	0.01	0.01	0.01	0.01	0.0157795
prob24.pddl	0.01	0.01	0.01	0.01	0.0196502
prob25.pddl	0.01	0.01	0.01	0.01	0.0197417
prob26.pddl	0.01	0.01	0.01	0.01	0.0119849
prob27.pddl	0.01	0.01	0.01	0.01	0.0197727
prob28.pddl	0.01	0.01	0.01	0.01	0.0147086
prob29.pddl	0.01	0.01	0.01	0.01	0.0210033
prob30.pddl	0.01	0.01	0.01	0.01	0.0161792

Total time-*mprime*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4.74568	0.01	0.01	0.0199271	0.0199737

Total time-*mprime*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}

| prob25.pddl | 4.74568 | 0.0159902 | 0.0232415 | 0.0199007 | 0.0361908 |

Total time-*mprime*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4.78741	0.01	0.01	0.0207455	0.0283222

Total time-*mprime*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob25.pddl	4.78741	0.0191363	0.0190006	0.0272024	0.0512877

Total time-*mystery*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5.59428	0.01	0.01	0.01	0.0158482
prob25.pddl	0.337257	0.01	0.01	0.01	0.0147534

Total time-*mystery*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5.59428	0.01	0.01	0.0104836	0.0238782
prob25.pddl	0.337257	0.0112239	0.01	0.0159654	0.0238144

Total time-*mystery*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5.63706	0.01	0.01	0.01	0.0110849
prob25.pddl	0.318642	0.01	0.01	0.01	0.0160415

Total time-*mystery*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
prob01.pddl	5.63706	0.01	0.01	0.0152534	0.0198129
prob25.pddl	0.318642	0.01	0.01	0.0158587	0.0262744

Total time-*nomystery-opt11-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.0110066	0.0482057
p02.pddl	0.0679306	0.01	0.0119875	0.0260511	0.183796
p03.pddl	0.179873	0.0748388	3.42219	3.76979	49.5319
p04.pddl	17.6672	0.0103463	0.0239843	0.0395635	0.261298
p11.pddl	0.01	0.01	0.01	0.0119595	0.0914856
p12.pddl	0.0399607	0.01	0.0119872	0.0234318	0.117329
p13.pddl	0.0751706	0.011991	0.367762	0.234137	2.84305
p14.pddl	4.75508	0.211834	10.6659	11.6329	170.34

Total time-*nomystery-opt11-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.0109694	0.0279835
p02.pddl	0.0679306	0.0268311	0.0356146	0.0394774	0.123903
p03.pddl	0.179873	0.0315638	0.0479447	0.0489689	0.232961
p04.pddl	17.6672	0.127875	0.207058	0.162896	0.822459
p11.pddl	0.01	0.01	0.01	0.0115721	0.0239902
p12.pddl	0.0399607	0.0159927	0.0239743	0.0278407	0.106097
p13.pddl	0.0751706	0.0235468	0.0280004	0.0319072	0.119703
p14.pddl	4.75508	0.0825811	0.14389	0.109092	0.419776

Total time-*nomystery-opt11-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.0116314	0.0505378
p02.pddl	0.0595997	0.01	0.0159732	0.0266489	0.190453
p03.pddl	0.183833	0.0747006	3.47071	3.87898	48.8418
p04.pddl	16.9634	0.011989	0.031956	0.0350338	0.278475
p11.pddl	0.01	0.01	0.01	0.0190747	0.0871175
p12.pddl	0.0345122	0.01	0.0159658	0.011884	0.113009
p13.pddl	0.083945	0.0119896	0.451671	0.246557	2.77682
p14.pddl	4.90739	0.222651	12.2179	11.4692	166.806

Total time-*nomystery-opt11-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.0113955	0.0308991
p02.pddl	0.0595997	0.0263327	0.034933	0.0475119	0.135305
p03.pddl	0.183833	0.0319628	0.0439562	0.0501781	0.27608
p04.pddl	16.9634	0.127891	0.195944	0.151939	0.95845
p11.pddl	0.01	0.01	0.01	0.01	0.0310399
p12.pddl	0.0345122	0.0189276	0.0265713	0.0293813	0.105704
p13.pddl	0.083945	0.0225761	0.027964	0.0321741	0.115894
p14.pddl	4.90739	0.0839672	0.143906	0.107963	0.478229

Total time-*openstacks-opt08-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.0108539	0.01	0.0101959	0.11833	0.126649
p02.pddl	0.090827	0.0319943	0.0479752	0.71758	0.743346
p03.pddl	0.627521	0.142325	0.263804	3.22126	3.40164
p04.pddl	3.82513	0.531556	1.12725	11.1833	11.5825
p05.pddl	17.437	1.22566	3.03714	23.7146	24.6096

Total time-*openstacks-opt08-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.0108539	0.0158357	0.0479802	0.15529	0.155235
p02.pddl	0.090827	0.083934	0.59158	1.07128	0.839566
p03.pddl	0.627521	0.523505	5.63453	5.94894	4.0852
p04.pddl	3.82513	2.52303	36.8914	24.7621	15.6859
p05.pddl	17.437	7.92771	131.164	67.4043	36.838

Total time-*openstacks-opt08-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.0119885	0.01	0.01	0.01	0.0359674
p02.pddl	0.0756791	0.01	0.01	0.01	0.037202
p03.pddl	0.57162	0.01	0.01	0.0116515	0.039742

p04.pddl	3.60939	0.01	0.01	0.0158858	0.0701547
p05.pddl	18.2144	0.01	0.0107262	0.0158451	0.0999521

Total time-*openstacks-opt08-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0119885	0.01	0.0116126	0.0226559	0.0834763
p02.pddl	0.0756791	0.0189022	0.0239833	0.0350282	0.141784
p03.pddl	0.57162	0.0279665	0.0592601	0.0593016	0.319826
p04.pddl	3.60939	0.047644	0.113652	0.111668	0.805053
p05.pddl	18.2144	0.0824769	0.303812	0.233657	1.94545

Total time-*openstacks-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.607294	0.01	0.01	0.0174112	0.0506317
p02.pddl	0.595579	0.01	0.01	0.0118616	0.0744255
p03.pddl	0.603386	0.01	0.01	0.0119932	0.0555533
p04.pddl	0.579751	0.01	0.01	0.0156125	0.0616473
p05.pddl	0.591439	0.01	0.01	0.0157137	0.0555016

Total time-*openstacks-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.607294	0.0199923	0.0514152	0.0635507	0.510506
p02.pddl	0.595579	0.018462	0.0759434	0.0669877	0.559631
p03.pddl	0.603386	0.0199886	0.0586358	0.0620803	0.555403
p04.pddl	0.579751	0.0159736	0.0519762	0.0559713	0.550894
p05.pddl	0.591439	0.0159977	0.0519303	0.0632455	0.547822

Total time-*openstacks-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.591547	0.01	0.01	0.0201325	0.0597144
p02.pddl	0.60366	0.01	0.01	0.0157343	0.0717172
p03.pddl	0.587727	0.01	0.01	0.0161426	0.0514164

p04.pddl	0.623442	0.01	0.01	0.0156741	0.0519651
p05.pddl	0.583715	0.01	0.01	0.021837	0.0537193

Total time-*openstacks-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.591547	0.0187492	0.0559713	0.0675654	0.563468
p02.pddl	0.60366	0.0239607	0.0598833	0.0685615	0.535307
p03.pddl	0.587727	0.0194592	0.0479437	0.0589394	0.501187
p04.pddl	0.623442	0.0199686	0.05574	0.0675624	0.531235
p05.pddl	0.583715	0.0159976	0.0599759	0.0599739	0.56648

Total time-*organic-synthesis-opt18-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.0160048	0.014876	0.0198864	0.0260033
p02.pddl	0.01	0.0148047	0.0119915	0.0205979	0.0222019
p03.pddl	0.259868	0.299846	0.307896	0.320187	0.398074
p07.pddl	0.01	0.01	0.01	0.01	0.01

Total time-*organic-synthesis-opt18-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.171872	0.195788	0.189304	0.200603
p02.pddl	0.01	0.258697	0.259614	0.268512	0.290253
p03.pddl	0.259868	19.7358	22.6586	22.4017	26.7791
p07.pddl	0.01	0.01	0.01	0.01	0.0112745

Total time-*organic-synthesis-opt18-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.0145365	0.0151352	0.0193679	0.0208794
p02.pddl	0.0119899	0.011991	0.0159883	0.0201208	0.0219743
p03.pddl	0.267817	0.375646	0.306741	0.318393	0.373096
p07.pddl	0.01	0.01	0.01	0.01	0.01

Total time-*organic-synthesis-opt18-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.179877	0.170515	0.18397	0.198706
p02.pddl	0.0119899	0.243859	0.25589	0.289737	0.287826
p03.pddl	0.267817	20.5987	24.1383	21.8531	26.3176
p07.pddl	0.01	0.01	0.01	0.011101	0.0154487

Total time-*parcprinter-08-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.91908	0.01	0.01	0.01	0.0675156
p11.pddl	3.1545	0.01	0.01	0.01	0.0605734
p21.pddl	0.0119888	0.01	0.01	0.01	0.0195817

Total time-*parcprinter-08-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.91908	0.0199839	0.0279623	0.0279605	0.061856
p11.pddl	3.1545	0.03199	0.0383952	0.0515192	0.151689
p21.pddl	0.0119888	0.01	0.01	0.0149843	0.0389332

Total time-*parcprinter-08-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.911405	0.01	0.01	0.01	0.0119957
p11.pddl	3.14912	0.01	0.01	0.01	0.0103943
p21.pddl	0.0119884	0.01	0.01	0.01	0.01

Total time-*parcprinter-08-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.911405	0.0159916	0.0199709	0.0273555	0.0359604
p11.pddl	3.14912	0.0349441	0.0399665	0.0512947	0.0798921
p21.pddl	0.0119884	0.0119852	0.01	0.0148477	0.0253159

Total time-*pegsol-08-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.503765	0.01	0.01	0.01	0.0117531
p05.pddl	0.503771	0.01	0.01	0.0199957	0.075602

Total time-*pegsol-08-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.503765	0.087502	0.0999311	0.103612	0.128118
p05.pddl	0.503771	0.163893	0.311915	0.174738	0.511738

Total time-*pegsol-08-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.499766	0.01	0.01	0.01	0.0161279
p05.pddl	0.495531	0.01	0.01	0.014439	0.0941447

Total time-*pegsol-08-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.499766	0.0919426	0.095956	0.139765	0.167855
p05.pddl	0.495531	0.0918989	0.19586	0.201339	0.839417

Total time-*psr-small*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	0.01	0.01	0.01	0.01	0.01
p02-s5-n1-l3-f30.pddl	0.01	0.01	0.01	0.01	0.0195116
p03-s7-n1-l3-f70.pddl	0.01	0.01	0.01	0.01	0.018923
p04-s8-n1-l4-f10.pddl	0.01	0.01	0.01	0.01	0.0235802
p05-s9-n1-l4-f30.pddl	0.01	0.01	0.01	0.01	0.0234869
p06-s10-n1-l4-f50.pddl	0.01	0.01	0.01	0.01	0.01
p07-s11-n1-l4-f70.pddl	0.01	0.01	0.01	0.01	0.0159836
p08-s12-n1-l5-f10.pddl	0.01	0.01	0.01	0.01	0.01
p09-s13-n1-l5-f30.pddl	0.01	0.01	0.01	0.01	0.01
p10-s17-n2-l2-f30.pddl	0.19193	0.01	0.01	0.0176199	0.0911003

p11-s18-n2-l2-f50.pddl	0.01	0.01	0.01	0.01	0.0278755
p12-s21-n2-l3-f30.pddl	0.01	0.01	0.01	0.01	0.0193316
p13-s22-n2-l3-f50.pddl	0.01	0.01	0.01	0.01	0.0311984
p14-s23-n2-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0115689
p15-s24-n2-l4-f10.pddl	4.67831	0.0199983	0.791329	1.35575	16.1385
p16-s29-n2-l5-f30.pddl	0.303793	0.01	0.0118769	0.11982	0.383873
p17-s30-n2-l5-f50.pddl	0.01	0.01	0.01	0.01	0.01
p18-s31-n2-l5-f70.pddl	0.01	0.01	0.01	0.0114047	0.0277442
p19-s33-n3-l2-f30.pddl	16.1957	0.01	0.0599679	0.451523	4.34507
p20-s34-n3-l2-f50.pddl	0.01	0.01	0.01	0.01	0.0274371
p21-s35-n3-l2-f70.pddl	0.01	0.01	0.01	0.01	0.0132563
p22-s37-n3-l3-f30.pddl	52.1591	0.01	0.01	0.0422109	0.218508
p23-s38-n3-l3-f50.pddl	0.139874	0.01	0.01	0.0110832	0.0276608
p24-s39-n3-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0134343
p26-s41-n3-l4-f30.pddl	0.0119855	0.01	0.01	0.01	0.0320563
p27-s42-n3-l4-f50.pddl	0.387312	0.01	0.01	0.0138545	0.0575927
p28-s43-n3-l4-f70.pddl	0.0544337	0.01	0.01	0.01	0.0315192
p29-s45-n3-l5-f30.pddl	132.358	0.01	0.0105442	0.0550037	0.397445
p30-s46-n3-l5-f50.pddl	0.990877	0.01	0.01	0.0196782	0.0679548
p32-s50-n4-l2-f50.pddl	0.659414	0.01	0.01	0.0234984	0.0956082
p33-s51-n4-l2-f70.pddl	24.3901	0.01	0.01	0.058023	0.235638
p34-s55-n4-l3-f70.pddl	0.239833	0.01	0.01	0.0148513	0.0440584
p38-s78-n3-l3-f50.pddl	0.163946	0.01	0.01	0.0109835	0.034947
p39-s79-n3-l3-f70.pddl	4.8255	0.01	0.01	0.0275706	0.107617
p41-s81-n3-l4-f30.pddl	0.01	0.01	0.01	0.01	0.01199
p42-s82-n3-l4-f50.pddl	2.22607	0.01	0.0115242	0.0936229	0.389271
p43-s83-n3-l4-f70.pddl	0.167831	0.01	0.01	0.0197688	0.103564
p44-s89-n4-l2-f30.pddl	20.2365	0.01	0.01	0.0265181	0.141856
p45-s94-n4-l3-f50.pddl	0.583697	0.01	0.01	0.014734	0.0535354
p47-s98-n5-l2-f50.pddl	29.5336	0.01	0.01	0.015974	0.106695
p50-s107-n6-l2-f70.pddl	48.5373	0.01	0.01	0.0154321	0.0915573

Total time-*psr-small*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	0.01	0.01	0.01	0.01	0.01
p02-s5-n1-l3-f30.pddl	0.01	0.01	0.01	0.0114663	0.0272461
p03-s7-n1-l3-f70.pddl	0.01	0.01	0.01	0.01	0.027415
p04-s8-n1-l4-f10.pddl	0.01	0.0119838	0.0115197	0.0239571	0.0434494
p05-s9-n1-l4-f30.pddl	0.01	0.01	0.01	0.0137124	0.0422792
p06-s10-n1-l4-f50.pddl	0.01	0.01	0.01	0.01	0.0116082
p07-s11-n1-l4-f70.pddl	0.01	0.01	0.01	0.0157262	0.0354152
p08-s12-n1-l5-f10.pddl	0.01	0.01	0.01	0.011986	0.0234421
p09-s13-n1-l5-f30.pddl	0.01	0.01	0.01	0.01	0.0183579
p10-s17-n2-l2-f30.pddl	0.19193	0.0319677	0.0359641	0.0559347	0.147626
p11-s18-n2-l2-f50.pddl	0.01	0.01	0.0106753	0.0233943	0.117141
p12-s21-n2-l3-f30.pddl	0.01	0.01	0.01	0.0190406	0.0754688
p13-s22-n2-l3-f50.pddl	0.01	0.01	0.01	0.01946	0.0791384
p14-s23-n2-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0180023
p15-s24-n2-l4-f10.pddl	4.67831	0.281673	5.44396	2.79469	38.2849
p16-s29-n2-l5-f30.pddl	0.303793	0.0264285	0.199931	0.395815	3.61254
p17-s30-n2-l5-f50.pddl	0.01	0.01	0.01	0.01	0.0156624
p18-s31-n2-l5-f70.pddl	0.01	0.01	0.0109806	0.0196433	0.0554145
p19-s33-n3-l2-f30.pddl	16.1957	0.0706019	1.12348	1.33443	10.8527
p20-s34-n3-l2-f50.pddl	0.01	0.01	0.0116162	0.0159989	0.0673143
p21-s35-n3-l2-f70.pddl	0.01	0.01	0.01	0.0115101	0.0250147
p22-s37-n3-l3-f30.pddl	52.1591	0.139873	1.61014	3.31616	24.6935
p23-s38-n3-l3-f50.pddl	0.139874	0.0199932	0.0199809	0.0316608	0.0706721
p24-s39-n3-l3-f70.pddl	0.01	0.01	0.01	0.0113892	0.0235123
p26-s41-n3-l4-f30.pddl	0.0119855	0.01	0.0149746	0.0354749	0.118315
p27-s42-n3-l4-f50.pddl	0.387312	0.0226031	0.0359635	0.0749994	0.289883
p28-s43-n3-l4-f70.pddl	0.0544337	0.01	0.01	0.0158274	0.0588654
p29-s45-n3-l5-f30.pddl	132.358	0.399829	0.751408	10.3518	94.8168
p30-s46-n3-l5-f50.pddl	0.990877	0.0359683	0.0999024	0.159925	0.673123
p32-s50-n4-l2-f50.pddl	0.659414	0.0192486	0.0519559	0.150405	0.550999
p33-s51-n4-l2-f70.pddl	24.3901	0.0439586	0.307872	0.54095	3.58199
p34-s55-n4-l3-f70.pddl	0.239833	0.0119877	0.0275086	0.058924	0.211367
p38-s78-n3-l3-f50.pddl	0.163946	0.0159939	0.0239845	0.0448348	0.165306

p39-s79-n3-l3-f70.pddl	4.8255	0.0439394	0.0919441	0.169807	0.958235
p41-s81-n3-l4-f30.pddl	0.01	0.01	0.01	0.0105732	0.0337559
p42-s82-n3-l4-f50.pddl	2.22607	0.0359848	0.22613	0.419315	2.86054
p43-s83-n3-l4-f70.pddl	0.167831	0.0159861	0.0239876	0.0715859	0.311483
p44-s89-n4-l2-f30.pddl	20.2365	0.0519685	0.139881	0.304476	1.37024
p45-s94-n4-l3-f50.pddl	0.583697	0.0199852	0.0279733	0.0713803	0.285752
p47-s98-n5-l2-f50.pddl	29.5336	0.0639826	0.127897	0.542063	1.79452
p50-s107-n6-l2-f70.pddl	48.5373	0.0319769	0.0719268	0.183885	0.731031

Total time-*psr-small*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	0.01	0.01	0.01	0.01	0.01
p02-s5-n1-l3-f30.pddl	0.01	0.01	0.01	0.01	0.0220211
p03-s7-n1-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0194486
p04-s8-n1-l4-f10.pddl	0.01	0.01	0.01	0.01	0.0210986
p05-s9-n1-l4-f30.pddl	0.01	0.01	0.01	0.01	0.0199678
p06-s10-n1-l4-f50.pddl	0.01	0.01	0.01	0.01	0.01
p07-s11-n1-l4-f70.pddl	0.01	0.01	0.01	0.01	0.0154381
p08-s12-n1-l5-f10.pddl	0.01	0.01	0.01	0.01	0.0112975
p09-s13-n1-l5-f30.pddl	0.01	0.01	0.01	0.01	0.0113863
p10-s17-n2-l2-f30.pddl	0.191917	0.01	0.01	0.0196978	0.090712
p11-s18-n2-l2-f50.pddl	0.01	0.01	0.01	0.0112512	0.0266707
p12-s21-n2-l3-f30.pddl	0.01	0.01	0.01	0.01	0.0199756
p13-s22-n2-l3-f50.pddl	0.01	0.01	0.01	0.01	0.0302118
p14-s23-n2-l3-f70.pddl	0.01	0.01	0.01	0.01	0.011616
p15-s24-n2-l4-f10.pddl	4.67821	0.0239767	0.775646	1.37196	16.1986
p16-s29-n2-l5-f30.pddl	0.295362	0.01	0.0158739	0.0915528	0.371646
p17-s30-n2-l5-f50.pddl	0.01	0.01	0.01	0.01	0.0106527
p18-s31-n2-l5-f70.pddl	0.01	0.01	0.01	0.01	0.0216398
p19-s33-n3-l2-f30.pddl	15.7427	0.01	0.0679261	0.451432	4.58796
p20-s34-n3-l2-f50.pddl	0.01	0.01	0.01	0.0109823	0.0261178
p21-s35-n3-l2-f70.pddl	0.01	0.01	0.01	0.01	0.0147131
p22-s37-n3-l3-f30.pddl	52.2942	0.01	0.01	0.0307951	0.179894
p23-s38-n3-l3-f50.pddl	0.13843	0.01	0.01	0.01	0.0299516

p24-s39-n3-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0154271
p26-s41-n3-l4-f30.pddl	0.0119928	0.01	0.01	0.0120491	0.0239729
p27-s42-n3-l4-f50.pddl	0.370273	0.01	0.01	0.0195486	0.0637129
p28-s43-n3-l4-f70.pddl	0.051949	0.01	0.01	0.0106667	0.0305256
p29-s45-n3-l5-f30.pddl	136.225	0.01	0.0119694	0.0574817	0.415737
p30-s46-n3-l5-f50.pddl	0.967594	0.01	0.01	0.0203697	0.0729239
p32-s50-n4-l2-f50.pddl	0.65129	0.01	0.01	0.0191251	0.11406
p33-s51-n4-l2-f70.pddl	23.8358	0.01	0.01	0.0495806	0.238386
p34-s55-n4-l3-f70.pddl	0.275871	0.01	0.01	0.01	0.0453821
p38-s78-n3-l3-f50.pddl	0.175813	0.01	0.01	0.0118679	0.0294161
p39-s79-n3-l3-f70.pddl	4.87148	0.01	0.01	0.0275089	0.107905
p41-s81-n3-l4-f30.pddl	0.0119852	0.01	0.01	0.01	0.0167362
p42-s82-n3-l4-f50.pddl	2.23511	0.01	0.0117232	0.0919377	0.394457
p43-s83-n3-l4-f70.pddl	0.159797	0.01	0.01	0.0195708	0.0879123
p44-s89-n4-l2-f30.pddl	21.0342	0.01	0.01	0.0268431	0.123217
p45-s94-n4-l3-f50.pddl	0.570898	0.01	0.01	0.01	0.0516348
p47-s98-n5-l2-f50.pddl	30.5694	0.01	0.01	0.0199887	0.101488
p50-s107-n6-l2-f70.pddl	48.9605	0.01	0.01	0.0199604	0.0719473

Total time-*psr-small*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01-s2-n1-l2-f50.pddl	0.01	0.01	0.01	0.01	0.01
p02-s5-n1-l3-f30.pddl	0.01	0.01	0.01	0.0108032	0.027317
p03-s7-n1-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0235948
p04-s8-n1-l4-f10.pddl	0.01	0.01	0.0114016	0.0198802	0.0518084
p05-s9-n1-l4-f30.pddl	0.01	0.01	0.01	0.0151411	0.0419915
p06-s10-n1-l4-f50.pddl	0.01	0.01	0.01	0.01	0.0102799
p07-s11-n1-l4-f70.pddl	0.01	0.01	0.01	0.0153886	0.0349559
p08-s12-n1-l5-f10.pddl	0.01	0.01	0.01	0.0128893	0.0236119
p09-s13-n1-l5-f30.pddl	0.01	0.01	0.01	0.01	0.01
p10-s17-n2-l2-f30.pddl	0.191917	0.0279574	0.0359905	0.0479643	0.135528
p11-s18-n2-l2-f50.pddl	0.01	0.01	0.01	0.0334845	0.111535
p12-s21-n2-l3-f30.pddl	0.01	0.01	0.01	0.0230888	0.0864808
p13-s22-n2-l3-f50.pddl	0.01	0.01	0.01	0.0198734	0.0559585

p14-s23-n2-l3-f70.pddl	0.01	0.01	0.01	0.01	0.0136286
p15-s24-n2-l4-f10.pddl	4.67821	0.271895	6.04658	3.7685	38.1808
p16-s29-n2-l5-f30.pddl	0.295362	0.0248929	0.199743	0.402786	3.55221
p17-s30-n2-l5-f50.pddl	0.01	0.01	0.01	0.01	0.0154629
p18-s31-n2-l5-f70.pddl	0.01	0.01	0.01	0.0191173	0.0473997
p19-s33-n3-l2-f30.pddl	15.7427	0.0673444	1.0016	1.31399	11.1821
p20-s34-n3-l2-f50.pddl	0.01	0.01	0.0120003	0.0196609	0.0639305
p21-s35-n3-l2-f70.pddl	0.01	0.01	0.01	0.0112878	0.0233764
p22-s37-n3-l3-f30.pddl	52.2942	0.143917	1.87821	3.66405	24.565
p23-s38-n3-l3-f50.pddl	0.13843	0.0152674	0.0156226	0.0314985	0.0756427
p24-s39-n3-l3-f70.pddl	0.01	0.01	0.01	0.013604	0.0240107
p26-s41-n3-l4-f30.pddl	0.0119928	0.01	0.0119691	0.0353827	0.123429
p27-s42-n3-l4-f50.pddl	0.370273	0.019992	0.0359873	0.0835985	0.274722
p28-s43-n3-l4-f70.pddl	0.051949	0.01	0.0114045	0.0228103	0.0645194
p29-s45-n3-l5-f30.pddl	136.225	0.399721	0.811386	10.7267	93.443
p30-s46-n3-l5-f50.pddl	0.967594	0.0319716	0.0839196	0.185908	0.693023
p32-s50-n4-l2-f50.pddl	0.65129	0.0199538	0.0435677	0.115903	0.53965
p33-s51-n4-l2-f70.pddl	23.8358	0.0424084	0.323702	0.560154	3.76421
p34-s55-n4-l3-f70.pddl	0.275871	0.0123659	0.0199643	0.0507724	0.223371
p38-s78-n3-l3-f50.pddl	0.175813	0.0158353	0.0279733	0.0554732	0.17545
p39-s79-n3-l3-f70.pddl	4.87148	0.0439657	0.095924	0.171484	0.670526
p41-s81-n3-l4-f30.pddl	0.0119852	0.01	0.01	0.0169743	0.0298732
p42-s82-n3-l4-f50.pddl	2.23511	0.0399714	0.25179	0.443385	2.80786
p43-s83-n3-l4-f70.pddl	0.159797	0.0159771	0.0239839	0.0674572	0.315714
p44-s89-n4-l2-f30.pddl	21.0342	0.0519639	0.147013	0.331109	1.24304
p45-s94-n4-l3-f50.pddl	0.570898	0.0199917	0.0319526	0.0677768	0.243824
p47-s98-n5-l2-f50.pddl	30.5694	0.0679308	0.139921	0.495698	1.94375
p50-s107-n6-l2-f70.pddl	48.9605	0.038961	0.0714574	0.228962	0.748934

Total time-*rovers*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.0240644
p02.pddl	0.01	0.01	0.01	0.01	0.0189692
p03.pddl	0.0119936	0.01	0.01	0.0101019	0.0296909

| p04.pddl | 0.01 | 0.01 | 0.01 | 0.01 | 0.0199807 |
| p05.pddl | 48.809 | 0.01 | 0.01 | 0.0358442 | 0.107919 |

Total time-*rovers*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.0135529	0.0750222
p02.pddl	0.01	0.01	0.01	0.01	0.0313772
p03.pddl	0.0119936	0.01	0.01	0.0115134	0.0394386
p04.pddl	0.01	0.01	0.01	0.01	0.0272051
p05.pddl	48.809	0.01	0.0159749	0.0435721	0.165621

Total time-*rovers*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.0159885
p02.pddl	0.01	0.01	0.01	0.01	0.019975
p03.pddl	0.0159759	0.01	0.01	0.0158442	0.033996
p04.pddl	0.01	0.01	0.01	0.01	0.0240626
p05.pddl	48.9545	0.01	0.01	0.0359545	0.099901

Total time-*rovers*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.0131906	0.0794792
p02.pddl	0.01	0.01	0.01	0.0114481	0.0248227
p03.pddl	0.0159759	0.01	0.01	0.01	0.0379039
p04.pddl	0.01	0.01	0.01	0.01	0.0279217
p05.pddl	48.9545	0.01	0.0160034	0.038722	0.159837

Total time-*satellite*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	0.01	0.01	0.01	0.01	0.0236174
p02-pfile2.pddl	0.01	0.01	0.01	0.0102733	0.0359676
p03-pfile3.pddl	0.175792	0.01	0.01	0.0412906	0.0591293

p04-pfile4.pddl	0.875275	0.01	0.0439593	0.113926	0.211801

Total time-*satellite*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	0.01	0.01	0.01	0.01	0.0266568
p02-pfile2.pddl	0.01	0.01	0.0118644	0.0196429	0.103428
p03-pfile3.pddl	0.175792	0.019876	0.143696	0.0879131	0.707896
p04-pfile4.pddl	0.875275	0.0599685	1.45514	1.08255	10.1978

Total time-*satellite*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	0.01	0.01	0.01	0.01	0.0236923
p02-pfile2.pddl	0.01	0.01	0.01	0.0116422	0.0399609
p03-pfile3.pddl	0.163875	0.01	0.0119873	0.0356381	0.0619878
p04-pfile4.pddl	0.886187	0.01	0.035032	0.1397	0.215789

Total time-*satellite*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01-pfile1.pddl	0.01	0.01	0.01	0.01	0.034678
p02-pfile2.pddl	0.01	0.01	0.0115248	0.0184706	0.104365
p03-pfile3.pddl	0.163875	0.0239656	0.123302	0.0946119	0.690885
p04-pfile4.pddl	0.886187	0.060877	1.38331	1.01156	10.8909

Total time-*scanalyzer-08-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0830863	0.0115051	0.0239782	0.0408689	0.243292
p02.pddl	0.0759717	0.01	0.0263608	0.032274	0.280013
p03.pddl	0.0679592	0.0119872	0.0279642	0.0621535	0.430265
p22.pddl	0.01	0.01	0.0119805	0.0136672	0.0324705
p23.pddl	0.01	0.0119914	0.0119768	0.0173871	0.0322984
p24.pddl	0.01	0.01	0.01	0.016161	0.0374438

Total time-*scanalyzer-08-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0830863	0.151938	0.45181	0.454625	3.34075
p02.pddl	0.0759717	0.107912	0.407545	0.323301	2.98966
p03.pddl	0.0679592	0.0959093	0.459288	0.430905	5.27439
p22.pddl	0.01	0.0359611	0.0399822	0.0493694	0.132577
p23.pddl	0.01	0.039957	0.0399797	0.043772	0.128743
p24.pddl	0.01	0.0355019	0.0439757	0.0589452	0.132641

Total time-*scanalyzer-08-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0719446	0.0159875	0.0279779	0.0279022	0.196642
p02.pddl	0.0679639	0.01	0.0469418	0.048832	0.494362
p03.pddl	0.0719111	0.01	0.0399669	0.0279628	0.311737
p22.pddl	0.01	0.01	0.01	0.019904	0.0279497
p23.pddl	0.01	0.01	0.0119883	0.0174879	0.0281532
p24.pddl	0.01	0.0119846	0.01	0.0173082	0.0279925

Total time-*scanalyzer-08-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.0719446	0.147218	0.582412	0.352809	2.67319
p02.pddl	0.0679639	0.107655	0.622189	0.288168	2.63432
p03.pddl	0.0719111	0.0919526	0.779661	0.320332	3.25698
p22.pddl	0.01	0.0319815	0.0391924	0.0439598	0.107258
p23.pddl	0.01	0.0359587	0.039929	0.0477629	0.105496
p24.pddl	0.01	0.0350848	0.039974	0.0399629	0.107192

Total time-*scanalyzer-opt11-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.0119881	0.01	0.0167768	0.0403312
p02.pddl	0.0759219	0.0105772	0.027988	0.0239836	0.28817
p03.pddl	0.0679496	0.01	0.0279903	0.0723884	0.430868

Total time-*scanalyzer-opt11-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.0359728	0.0436537	0.0437477	0.126643
p02.pddl	0.0759219	0.111933	0.463053	0.33985	3.04152
p03.pddl	0.0679496	0.0993706	0.419847	0.361091	5.02785

Total time-*scanalyzer-opt11-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.0159731	0.0127821	0.0329157
p02.pddl	0.0759154	0.01	0.0319822	0.0557651	0.491783
p03.pddl	0.0705563	0.01	0.0519286	0.0361228	0.303585

Total time-*scanalyzer-opt11-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.0358823	0.0559725	0.046177	0.105059
p02.pddl	0.0759154	0.107922	0.679854	0.303179	2.59782
p03.pddl	0.0705563	0.0958924	0.76705	0.414827	3.19325

Total time-*storage*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.01
p03.pddl	0.0479772	0.01	0.01	0.01	0.01
p04.pddl	0.0159777	0.01	0.01	0.01	0.0188276
p05.pddl	0.642726	0.01	0.01	0.01	0.0119919
p06.pddl	18.1439	0.01	0.01	0.0121278	0.0275486
p07.pddl	9.48647	0.01	0.01	0.0202644	0.0900171

Total time-*storage*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.01

p03.pddl	0.0479772	0.011991	0.0106927	0.0194471	0.0271623
p04.pddl	0.0159777	0.0159886	0.0199769	0.0320097	0.0956325
p05.pddl	0.642726	0.043977	0.0627407	0.067936	0.234516
p06.pddl	18.1439	0.0959506	0.167001	0.160139	0.431865
p07.pddl	9.48647	0.0997048	0.311718	0.310903	2.06246

Total time-*storage*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.01
p03.pddl	0.0519519	0.01	0.01	0.01	0.01
p04.pddl	0.0159703	0.01	0.01	0.01	0.0211325
p05.pddl	0.655492	0.01	0.01	0.0104239	0.0180079
p06.pddl	18.1591	0.01	0.01	0.0120458	0.0272258
p07.pddl	9.63115	0.01	0.01	0.0119837	0.0837769

Total time-*storage*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0113939
p03.pddl	0.0519519	0.0119898	0.0159765	0.018288	0.0253738
p04.pddl	0.0159703	0.0155841	0.015978	0.0314037	0.0795225
p05.pddl	0.655492	0.0479548	0.0668	0.0675022	0.22502
p06.pddl	18.1591	0.103945	0.159886	0.136279	0.43413
p07.pddl	9.63115	0.103918	0.371897	0.295796	2.05453

Total time-*termes-opt18-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19.2192	0.019995	0.538037	0.708655	7.12497
p02.pddl	19.2479	0.0159989	0.367712	0.518613	5.04157
p11.pddl	20.9898	0.0279881	0.630273	1.16712	12.2848
p12.pddl	18.8533	0.0108335	0.0399521	0.0865901	0.711245
p17.pddl	20.2414	0.0436344	1.10268	1.61455	17.8314

p18.pddl	19.1742	0.0119954	0.146896	0.247774	2.37491

Total time-*termes-opt18-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19.2192	0.135902	20.5521	10.4658	133.645
p02.pddl	19.2479	0.146939	13.2107	9.54962	92.9914
p11.pddl	20.9898	0.155852	12.0181	5.10404	90.4233
p12.pddl	18.8533	0.118311	0.831342	0.65081	4.89286
p17.pddl	20.2414	0.16627	20.2337	8.59271	153.903
p18.pddl	19.1742	0.131906	2.23929	1.19928	16.9105

Total time-*termes-opt18-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19.5139	0.0279795	0.375796	0.703466	7.44345
p02.pddl	19.1475	0.0199761	0.267753	0.517973	5.25534
p11.pddl	19.7793	0.0279541	0.855301	1.24699	14.0346
p12.pddl	18.7246	0.011983	0.0439742	0.0887137	0.699318
p17.pddl	20.6275	0.0439805	1.07144	1.6344	17.5093
p18.pddl	19.5759	0.0159842	0.175885	0.240642	2.46225

Total time-*termes-opt18-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	19.5139	0.183894	19.4015	8.21574	133.492
p02.pddl	19.1475	0.147824	14.5394	6.37814	91.5673
p11.pddl	19.7793	0.150565	15.4288	5.06229	86.7434
p12.pddl	18.7246	0.123592	0.755367	0.44896	5.05048
p17.pddl	20.6275	0.174461	20.372	7.95502	150.687
p18.pddl	19.5759	0.130393	2.28214	1.86718	17.8301

Total time-*tpp*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01

p02.pddl	0.01	0.01	0.01	0.01	0.0117487
p03.pddl	0.01	0.01	0.01	0.01	0.0123059
p04.pddl	0.02728	0.01	0.01	0.01	0.0198125

Total time-*tpp*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0134261
p03.pddl	0.01	0.01	0.01	0.01	0.0195272
p04.pddl	0.02728	0.01	0.01	0.01	0.0346753

Total time-*tpp*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0107226
p03.pddl	0.01	0.01	0.01	0.01	0.0178309
p04.pddl	0.0278004	0.01	0.01	0.01	0.0184337

Total time-*tpp*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0156525
p03.pddl	0.01	0.01	0.01	0.01	0.0222182
p04.pddl	0.0278004	0.01	0.01	0.01	0.0388103

Total time-*transport-opt08-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.0306187
p02.pddl	0.0747784	0.01	0.019883	0.0185442	0.543843
p03.pddl	6.57566	0.0119967	0.0719353	0.0810249	1.14291
p11.pddl	0.01	0.01	0.01	0.01	0.0752874
p13.pddl	33.0262	0.0119907	0.739549	0.153264	7.3641

p21.pddl	0.01	0.01	0.01	0.01	0.0239785
p23.pddl	6.53779	0.01	0.0718949	0.119926	1.15379

Total time-*transport-opt08-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.012004	0.01	0.01	0.0222065
p02.pddl	0.0747784	0.0239795	0.035993	0.0403056	0.144322
p03.pddl	6.57566	0.122504	0.279602	0.182403	2.25914
p11.pddl	0.01	0.01	0.01	0.0158074	0.0594337
p13.pddl	33.0262	0.251776	0.527782	0.331587	2.80615
p21.pddl	0.01	0.01	0.01	0.01	0.0308961
p23.pddl	6.53779	0.13588	0.214952	0.165528	1.07244

Total time-*transport-opt08-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.0239255
p02.pddl	0.0838803	0.01	0.01	0.0158017	0.0479471
p03.pddl	6.68255	0.01	0.103922	0.0729536	0.384982
p11.pddl	0.01	0.01	0.01	0.01	0.0198124
p13.pddl	32.4246	0.0119858	0.107956	0.183152	1.06924
p21.pddl	0.01	0.01	0.01	0.01	0.0174428
p23.pddl	6.26175	0.01	0.03998	0.0803509	0.492994

Total time-*transport-opt08-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.0194883
p02.pddl	0.0838803	0.0239866	0.027963	0.0382208	0.136052
p03.pddl	6.68255	0.111956	0.231174	0.172561	1.23539
p11.pddl	0.01	0.01	0.01	0.0114761	0.0354601
p13.pddl	32.4246	0.239891	0.423751	0.313137	1.07534
p21.pddl	0.01	0.01	0.01	0.01	0.0236651
p23.pddl	6.26175	0.114985	0.203892	0.155905	0.740672

Total time-*transport-opt11-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6.47037	0.01	0.0639605	0.12283	1.12322
p02.pddl	6.8741	0.0112864	0.071952	0.0820134	1.10353
p04.pddl	33.1084	0.0104645	0.751273	0.147889	7.27427

Total time-*transport-opt11-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6.47037	0.135848	0.21976	0.159861	1.13483
p02.pddl	6.8741	0.115928	0.255656	0.213062	2.19307
p04.pddl	33.1084	0.243885	0.495779	0.317551	3.08601

Total time-*transport-opt11-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6.43584	0.01	0.0439678	0.0812812	0.466328
p02.pddl	6.13312	0.01	0.0992937	0.0722667	0.379738
p04.pddl	29.9954	0.0119751	0.138763	0.171836	1.06803

Total time-*transport-opt11-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	6.43584	0.115887	0.198832	0.14954	0.701013
p02.pddl	6.13312	0.114516	0.239873	0.171218	1.21333
p04.pddl	29.9954	0.247796	0.407107	0.332207	1.105

Total time-*transport-opt14-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	12.0808	0.0119902	0.719699	0.115529	10.8786

Total time-*transport-opt14-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p07.pddl	12.0808	0.155405	0.462599	0.277246	3.7929

Total time-*transport-opt14-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	11.2482	0.01	0.0599285	0.0924277	0.509352

Total time-*transport-opt14-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p07.pddl	11.2482	0.151261	0.763669	0.354996	4.221

Total time-*trucks-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.0223668	0.01	0.01	0.01	0.0200769
p02.pddl	0.115769	0.01	0.0112057	0.0362187	0.207952
p03.pddl	9.83465	0.01	0.0519686	0.0562693	0.0606789

Total time-*trucks-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.0223668	0.01	0.01	0.0179457	0.0665096
p02.pddl	0.115769	0.0159713	0.0239801	0.0314436	0.158018
p03.pddl	9.83465	0.0359629	0.0990682	0.0826615	0.667342

Total time-*trucks-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.019982	0.01	0.01	0.01	0.0199228
p02.pddl	0.118473	0.01	0.0159759	0.0360752	0.214852
p03.pddl	9.96749	0.01	0.055972	0.0440665	0.0616596

Total time-*trucks-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.019982	0.01	0.01	0.0192913	0.0625589
p02.pddl	0.118473	0.0182438	0.0239852	0.0341679	0.177104
p03.pddl	9.96749	0.0319838	0.087927	0.0776984	0.644612

Total time-*visitall-opt11-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	0.01	0.01	0.01	0.01	0.01
problem02-half.pddl	0.01	0.01	0.01	0.01	0.01
problem03-full.pddl	0.01	0.01	0.01	0.01	0.0155188
problem03-half.pddl	0.01	0.01	0.01	0.01	0.0189362
problem04-full.pddl	0.0506987	0.01	0.01	0.01	0.0268278
problem04-half.pddl	0.01	0.01	0.01	0.0176767	0.0822187
problem05-half.pddl	0.0398573	0.01	0.01	0.0257187	0.0972809
problem06-half.pddl	0.107886	0.015858	0.107905	0.463496	2.85378

Total time-*visitall-opt11-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	0.01	0.01	0.01	0.01	0.01
problem02-half.pddl	0.01	0.01	0.01	0.01	0.01
problem03-full.pddl	0.01	0.01	0.01	0.01	0.0193327
problem03-half.pddl	0.01	0.01	0.01	0.01	0.0142487
problem04-full.pddl	0.0506987	0.0227788	0.0319733	0.0428572	0.163345
problem04-half.pddl	0.01	0.01	0.01	0.011644	0.0267638
problem05-half.pddl	0.0398573	0.0199899	0.0433201	0.0479758	0.187846
problem06-half.pddl	0.107886	0.0399554	0.127818	0.0834987	0.435802

Total time-*visitall-opt11-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
problem02-full.pddl	0.01	0.01	0.01	0.01	0.01
problem02-half.pddl	0.01	0.01	0.01	0.01	0.01
problem03-full.pddl	0.01	0.01	0.01	0.01	0.0113166
problem03-half.pddl	0.01	0.01	0.01	0.01	0.0194365
problem04-full.pddl	0.0479579	0.01	0.01	0.01	0.0197796
problem04-half.pddl	0.01	0.01	0.01	0.017901	0.0832686
problem05-half.pddl	0.0359798	0.01	0.01	0.0200024	0.111848
problem06-half.pddl	0.0959605	0.0159674	0.103925	0.473089	3.29858

Total time-*visitall-opt11-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
problem02-full.pddl	0.01	0.01	0.01	0.01	0.01
problem02-half.pddl	0.01	0.01	0.01	0.01	0.01
problem03-full.pddl	0.01	0.01	0.01	0.01	0.0186028
problem03-half.pddl	0.01	0.01	0.01	0.01	0.0114213
problem04-full.pddl	0.0479579	0.0184818	0.0279714	0.039958	0.153738
problem04-half.pddl	0.01	0.01	0.01	0.01	0.0272181
problem05-half.pddl	0.0359798	0.0227038	0.0398143	0.0466349	0.195822
problem06-half.pddl	0.0959605	0.0359827	0.103925	0.0966843	0.438398

Total time-*visitall-opt14-strips*-Normal-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	0.33564	0.01	0.01	0.0119865	0.0399609
p-05-6.pddl	0.507403	0.01	0.0109222	0.0333433	0.195786

Total time-*visitall-opt14-strips*-Normal-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	0.33564	0.0399666	0.0839397	0.0893964	0.417972
p-05-6.pddl	0.507403	0.0559687	0.167727	0.131808	0.670706

Total time-*visitall-opt14-strips*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	0.327675	0.01	0.01	0.0151126	0.0467636
p-05-6.pddl	0.511496	0.01	0.0103287	0.0319703	0.187801

Total time-*visitall-opt14-strips*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p-05-5.pddl	0.327675	0.0439519	0.0839695	0.0980188	0.419703
p-05-6.pddl	0.511496	0.0599612	0.167867	0.15966	0.686983

Total time-*woodworking-opt08-strips*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	5.77274	0.01	0.01	0.0155027	0.0600265

Total time-*woodworking-opt08-strips*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	5.77274	0.0471953	0.0596143	0.079706	0.299107

Total time-*woodworking-opt08-strips*-Unitary-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	6.00974	0.01	0.01	0.0113155	0.0199961

Total time-*woodworking-opt08-strips*-Unitary-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p21.pddl	6.00974	0.0439613	0.063904	0.0722866	0.176077

Total time-*zenotravel*-Normal-*sys2*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0160637
p03.pddl	0.0958834	0.01	0.01	0.0201769	0.0558421
p04.pddl	0.0839548	0.01	0.01	0.0199934	0.13591
p05.pddl	0.271869	0.01	0.01	0.0319148	0.108784
p06.pddl	2.02522	0.01	0.01	0.0470588	0.163855
p07.pddl	2.18231	0.01	0.0119886	0.052327	0.243759

Total time-*zenotravel*-Normal-*sys4*

Total time	h^*	h_{lsh}^{pho}	h_{ilsh}^{pho}	h_{LP}^{pho}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.017129
p03.pddl	0.0958834	0.0119519	0.0156541	0.0241199	0.0802078

p04.pddl	0.0839548	0.01	0.0159687	0.024972	0.0917602
p05.pddl	0.271869	0.0199842	0.0639578	0.0353859	0.134338
p06.pddl	2.02522	0.0279851	0.0759185	0.0588056	0.452088
p07.pddl	2.18231	0.0279745	0.0707061	0.0549163	0.421216

Total time-*zenotravel*-Unitary-*sys2*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0105392
p03.pddl	0.0836854	0.01	0.01	0.0201887	0.0521131
p04.pddl	0.0945324	0.01	0.01	0.0224971	0.150684
p05.pddl	0.275892	0.01	0.01	0.0286592	0.0992964
p06.pddl	1.83152	0.01	0.01	0.0439795	0.172217
p07.pddl	2.20172	0.01	0.0119908	0.056335	0.252406

Total time-*zenotravel*-Unitary-*sys4*

Total time	h^*	h^{pho}_{lsh}	h^{pho}_{ilsh}	h^{pho}_{LP}	h^{pho}
p01.pddl	0.01	0.01	0.01	0.01	0.01
p02.pddl	0.01	0.01	0.01	0.01	0.0139189
p03.pddl	0.0836854	0.0159754	0.0159886	0.0240855	0.0800463
p04.pddl	0.0945324	0.01	0.0119836	0.0226777	0.0790947
p05.pddl	0.275892	0.011992	0.0639278	0.0411129	0.147036
p06.pddl	1.83152	0.0239835	0.0679364	0.0603854	0.416043
p07.pddl	2.20172	0.0273511	0.0711718	0.0519634	0.411127