



Detailed results of the comparison of basis functions used in interval-based optimization process

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Detailed results of the comparison of basis functions used in interval-based optimization process

Sébastien Lengagne

August 27, 2024

1 Introduction

In this paper, we assess the results of the method proposed in [1] by addressing Optimization Problems (OP) to find the posture of a robot that optimally fits robot constraints and desired end-effector position such as :

$$\begin{aligned} \text{Find } & q \in \mathbb{Q} \subset \mathbb{R}^n \\ \text{such as } & \min_q \mathcal{F}(q) \\ \text{with } & \forall j \in \{1, \dots, m\} \quad \mathcal{G}_j(q) \in [\underline{g}_j, \bar{g}_j] \end{aligned} \tag{1}$$

Where n is called the number of degrees of freedom.

2 Detail of the basis functions

The different basis functions presented in [1] are more deeply presented here. Table 1 to 8 represents the coefficient of the matrix \mathbf{B} and the coefficient of the matrix \mathbf{B}^{-1} . Eventually, Table 9 shows the plot for the different functions from order 2 to 6.

We consider basis functions of the difference types :

- Bernstein,
- MinVariance,
- B-Splines,
- MinNorm,
- MinVolume
- Approximation of MinVolume (ApproxMinVo),
- Recursive,
- Recursive2.

3 Bissection mode

The goal of this document is to evaluate the efficient of the evaluation process in the case of optimization. We do not focus on the bisection process that will be study in future works. Here, we consider the results of two different bisection process :

- **MinFirst** : Cut the largest interval and store in a FILO (First In Last Out) stack the higher part and then the lower part. So the lower part will be the next to be evaluated.
- **MaxFirst** : Cut the largest interval and store in a FILO (First In Last Out) stack the lower part and then the higher part. So the higher part will be the next to be evaluated.

4 Presentation of the Planar robot problem

First, we assess our method on multi degrees-of-freedom 2D-robots, and considering possible constraints on the end effector, the Center of Mass position and maximum torque:

4.1 End effector position

We define the end effector by recursively computing :

$$i \in 1, \dots, n \quad T_i = T_{i-1} \times \begin{bmatrix} \cos(q_i) & -\sin(q_i) & l \\ \sin(q_i) & \cos(q_i) & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad (2)$$

With the number of a link $l = 2/n$ and $T_0 = I_{3 \times 3}$ and the end-effector position $\{P_x, P_y\}$ and orientation θ are defined as:

$$T_n = \begin{bmatrix} \cos(\theta) & -\sin(\theta) & P_x \\ \sin(\theta) & \cos(\theta) & P_y \\ 0 & 0 & 1 \end{bmatrix} \quad (3)$$

4.2 Considering several targets

We assess our method on nine different target positions considering shape as a square of size 0.2 by 0.2, as a circle target with a radius of 0.1 and as a ring target with an external radius of 0.15 and an interval radius of 0.05. The targets are localized at three different positions :

- problem 1,4,7 : $x = 0.2, y = 1.7$
- problem 2,5,8 : $x = 0.4, y = 1.4$
- problem 3,6,9 : $x = 0.6, y = 1.1$

We defined the following constraints :

$$\text{square: } \begin{cases} P_x \in [x - 0.1; x + 0.1] \\ P_y \in [y - 0.1; y + 0.1] \end{cases} \quad (4)$$

$$\text{circle: } (P_x - x)^2 + (P_y - y)^2 \in [0; 0.01] \quad (5)$$

$$\text{ring: } (P_x - x)^2 + (P_y - y)^2 \in [0.05^2; 0.15^2] \quad (6)$$

4.3 Center of Mass

To assess the performance of the evaluation for more complex functions we consider the Center of Mass (COM) of the robot. We consider that all the links have the same length $l = 2/n$ and same weight 1 and the same Center Of Mass located in the middle of each links. Thus the x-coordinate of the COM of each link c_i can be computed through :

$$c_i = [1 \ 0 \ 0] T_i \times \begin{bmatrix} l/2 \\ 0 \\ 0 \end{bmatrix} \quad (7)$$

and the global COM as :

$$COM = \frac{1}{n} \sum_{i=1}^n c_i \quad (8)$$

Finally we consider that the COM of the robot must remain in $[0.1, 0.1]$ on the horizontal plane.

4.4 Cost function

We consider two different cost functions to minimize. The first one is the sum of joint position square and the second is the sum of torque square:

$$\text{problem 1 to 9 position : } \sum_{i=1}^n q_i^2 \quad (9)$$

$$\text{problem 11 to 19 torque : } \sum_{i=1}^n \Gamma_i^2 \quad (10)$$

$$(11)$$

4.5 Results of the Planar robot problem

We assess our contribution with 18 different constraint satisfaction problems, with the two bisection processes (MinFirst and MaxFirst) such as presented in Table 11.

4.6 Results of the Bissection process

The results are summarized in the tables 12 to 47 and summarized in table 48. For all the cases, it appears that using basis functions reduce the number of iterations regarding to the state-of-the-art interval bissection process. This phenomenon is all the more important as the number of degrees of freedom increases and as the precision decreases. Regarding the computation time the BSplines basis function is the worst cases (even worse than interval bissection process). Excluding the preparation phase the other basis functions allows the optimization process to be faster than interval bissection. Taking into account the preparation phase, the basis function (except BSplines) are faster for degrees of freedom bigger than 4.

Regarding the global performances the Bernstein function seems to be the best solution, very close to the MinVariance (for computation time and number of iterations). Then the MinNo, the Recursive and the Recurisve2 produce quite good performances and the MinVo and ApproxMinVo are the less effective methods whereas BSplines is the worst one.

5 3D robot

5.1 Presentation fo the robot

In this section we consider the same kind of problem as presented in Equation 1 but with 3D-robots. To assess the effectiveness of our method on more complex systems, we consider the following problem:

$$\begin{aligned}
 & \text{Find} && q \in \mathbb{Q} \subset \mathbb{R}^n \\
 & \text{such as} && \min_q F(q) \\
 & \text{with} && x \in x_d + [-0.01; 0.01] \\
 & && y \in y_d + [-0.01; 0.01] \\
 & && z \in z_d + [-0.01; 0.01] \\
 & \forall j = \{1, \dots, n\} && \Gamma_j \in [-\alpha \bar{\Gamma}_j : \alpha \bar{\Gamma}_j]
 \end{aligned} \tag{12}$$

We present the results for two different 3D robots (with $n = 4$ and $n = 6$ degrees of freedom) which derive from the KUKA LWR as presented on Figure 1. The 4-dof robot is obtained by considering the joint number 3 and 5 equal to zero.

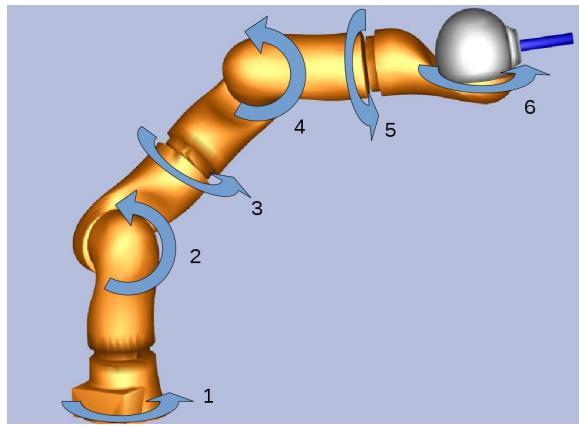


Figure 1: The 3D robot : KUKA LWR

The solution of Problem 12 is the static posture, i.e. the joint position, that minimizes the cost function $F(q)$ and ensures that the end effector position $\{x, y, z\}$ is within a 0.02 meter width box centered on a desired position $\{x_d, y_d, z_d\}$, and checks the joint torque Γ_i are within the joint limits $[-\bar{\Gamma}_j : \bar{\Gamma}_j]$ considering different coefficient α . These function can be obtained by using the forward kinematic model and the inverse dynamics model as presented in [2].

5.2 Constraint evaluation

First, Table 49 and 50 presents the results of the constraint and cost function computation considering several inputs to compare the effectiveness of the different basis function on the evaluation performances.

Figure 2 represents the diameter of the sum of square torque regarding the diameter of the input $[q]$. It shows that for large boxes (diameter of 2), the interval evaluation is quite similar using interval analysis or basis function based evaluation. For smaller intervals, the basis-functions produce tighter evaluation than interval analysis, except for the worst case of B-Splines.

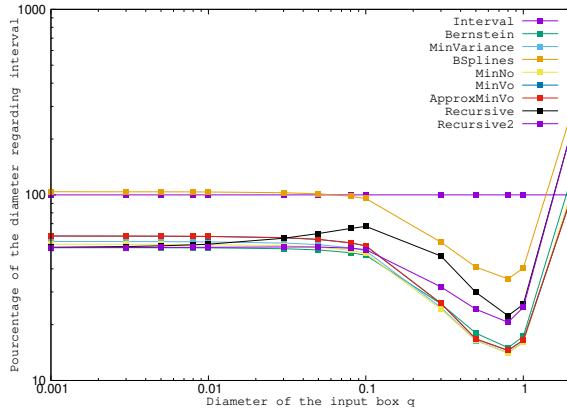


Figure 2: Representation of the diameter of the evaluation using basis function regarding interval analysis.

5.3 Optimization Results of the 3D robot problem

We assess our contribution with 12 different constraint satisfaction problems, with the two bisection processes (MinFirst and MaxFirst) such as presented in Table 51, with n the number of degrees of freedom. Some computation with 6-dof robot and sum of square torques are still in progress with huge computation time (more than 60 days), hence we do not present the results here.

5.4 Results of the Bisection process

We can note that the preparation time is quite important: around 100s for 4-dof-robot and around 400s for the 6-dof-robot. This will greatly impact the performance for fast resolution, but can be neglected for more complex problem that are solved in several hours or days.

As for the 2D-cases, we notice that the number of iterations of basis-function based method is lower than state-of-the art interval analysis. This point emphasizes that the evaluation produce tighter boxes that was already showed in Section 5.2.

Regarding the performances of the different basis functions, it is clear that the BSplines are the worst case. The other basis function produce similar results in terms of reducing the number of bisection process or the computation even if we can notice that the Bernstein functions seems too be the best choice.

6 Result summary

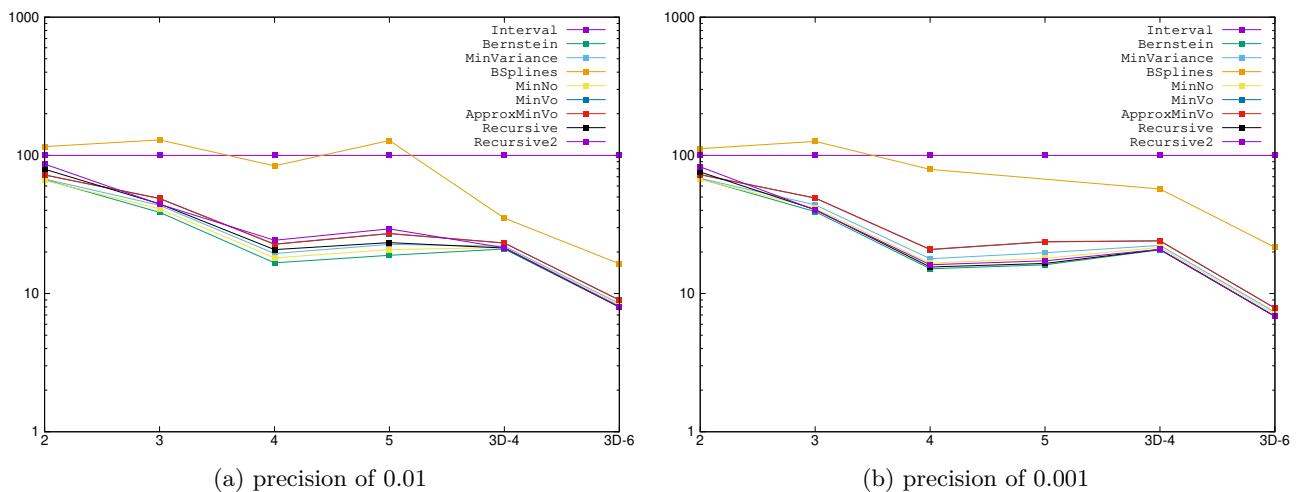


Figure 3: Comparison of the number of iterations

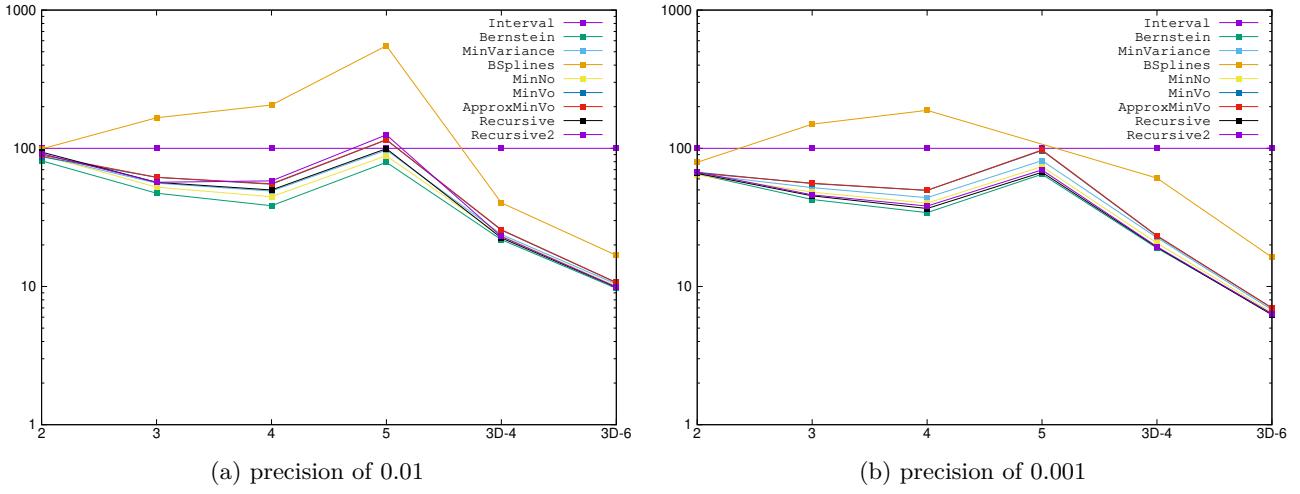


Figure 4: Comparison of the computation time.

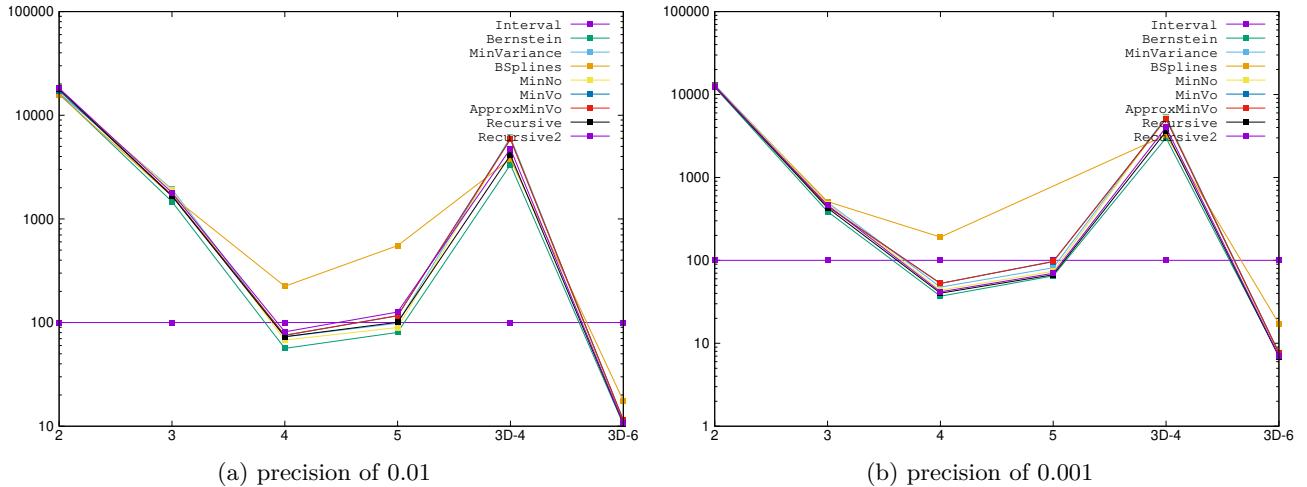


Figure 5: Comparison of the total computation time (including preparation phase).

Acknowledgment

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References

- [1] Sébastien Lengagne. Comparison of the basis-functions for interval-based optimization. submitted to International Journal of Approximate Reasoning, –.
- [2] Bruno Siciliano and Oussama Khatib. Springer Handbook of Robotics. Springer-Verlag, Berlin, Heidelberg, 2007.

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6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.000000</td><td>1.000000</td><td>-1.000000</td><td>1.000000</td><td>-1.000000</td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.666667</td><td>0.333333</td><td>-0.000000</td><td>-0.333333</td><td>0.666667</td><td>-1.000000</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.333333</td><td>-0.066667</td><td>0.200000</td><td>-0.066667</td><td>-0.333333</td><td>1.000000</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.000000</td><td>-0.200000</td><td>-0.000000</td><td>0.200000</td><td>0.000000</td><td>-1.000000</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.333333</td><td>-0.066667</td><td>-0.200000</td><td>-0.066667</td><td>0.333333</td><td>1.000000</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.666667</td><td>0.333333</td><td>0.000000</td><td>-0.333333</td><td>-0.666667</td><td>-1.000000</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.000000</td><td>1.000000</td><td>1.000000</td><td>1.000000</td><td>1.000000</td><td>1.000000</td><td></td></tr> </table>											1.000000	-1.000000	1.000000	-1.000000	1.000000	-1.000000					1.000000	-0.666667	0.333333	-0.000000	-0.333333	0.666667	-1.000000				1.000000	-0.333333	-0.066667	0.200000	-0.066667	-0.333333	1.000000				1.000000	0.000000	-0.200000	-0.000000	0.200000	0.000000	-1.000000				1.000000	0.333333	-0.066667	-0.200000	-0.066667	0.333333	1.000000				1.000000	0.666667	0.333333	0.000000	-0.333333	-0.666667	-1.000000				1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000		
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Table 1: Values of the matrices **B** and **B⁻¹** for the Bernstein basis functions from order 1 to 6.

matrice	order	value																																																							
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.500000</td><td>0.500000</td></tr> <tr><td>-0.500000</td><td>0.500000</td></tr> </table>							0.500000	0.500000	-0.500000	0.500000																																													
0.500000	0.500000																																																								
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2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.155869</td><td>0.688262</td><td>0.155869</td></tr> <tr><td>-0.463203</td><td>0.000000</td><td>0.463203</td></tr> <tr><td>0.344131</td><td>-0.688262</td><td>0.344131</td></tr> </table>							0.155869	0.688262	0.155869	-0.463203	0.000000	0.463203	0.344131	-0.688262	0.344131																																									
0.155869	0.688262	0.155869																																																							
-0.463203	0.000000	0.463203																																																							
0.344131	-0.688262	0.344131																																																							
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.019243</td><td>0.480757</td><td>0.480757</td><td>0.019243</td></tr> <tr><td>-0.175647</td><td>-0.592928</td><td>0.592928</td><td>0.175647</td></tr> <tr><td>0.474214</td><td>-0.474214</td><td>-0.474214</td><td>0.474214</td></tr> <tr><td>-0.317810</td><td>0.599471</td><td>-0.599471</td><td>0.317810</td></tr> </table>							0.019243	0.480757	0.480757	0.019243	-0.175647	-0.592928	0.592928	0.175647	0.474214	-0.474214	-0.474214	0.474214	-0.317810	0.599471	-0.599471	0.317810																																		
0.019243	0.480757	0.480757	0.019243																																																						
-0.175647	-0.592928	0.592928	0.175647																																																						
0.474214	-0.474214	-0.474214	0.474214																																																						
-0.317810	0.599471	-0.599471	0.317810																																																						
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.000358</td><td>0.223129</td><td>0.553025</td><td>0.223129</td><td>0.000358</td></tr> <tr><td>0.017719</td><td>-0.754489</td><td>0.000000</td><td>0.754489</td><td>-0.017719</td></tr> <tr><td>0.198449</td><td>0.414677</td><td>-1.226252</td><td>0.414677</td><td>0.198449</td></tr> <tr><td>-0.510994</td><td>0.754489</td><td>0.000000</td><td>-0.754489</td><td>0.510994</td></tr> <tr><td>0.297927</td><td>-0.637806</td><td>0.679758</td><td>-0.637806</td><td>0.297927</td></tr> </table>						0.000358	0.223129	0.553025	0.223129	0.000358	0.017719	-0.754489	0.000000	0.754489	-0.017719	0.198449	0.414677	-1.226252	0.414677	0.198449	-0.510994	0.754489	0.000000	-0.754489	0.510994	0.297927	-0.637806	0.679758	-0.637806	0.297927																										
0.000358	0.223129	0.553025	0.223129	0.000358																																																					
0.017719	-0.754489	0.000000	0.754489	-0.017719																																																					
0.198449	0.414677	-1.226252	0.414677	0.198449																																																					
-0.510994	0.754489	0.000000	-0.754489	0.510994																																																					
0.297927	-0.637806	0.679758	-0.637806	0.297927																																																					
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.001914</td><td>0.054005</td><td>0.444081</td><td>0.444081</td><td>0.054005</td><td>0.001914</td></tr> <tr><td>0.020330</td><td>-0.413584</td><td>-0.682843</td><td>0.682843</td><td>0.413584</td><td>-0.020330</td></tr> <tr><td>-0.000905</td><td>0.916831</td><td>-0.915926</td><td>-0.915926</td><td>0.916831</td><td>-0.000905</td></tr> <tr><td>-0.272851</td><td>-0.227279</td><td>1.473726</td><td>-1.473726</td><td>0.227279</td><td>0.272851</td></tr> <tr><td>0.496226</td><td>-0.970088</td><td>0.473862</td><td>0.473862</td><td>-0.970088</td><td>0.496226</td></tr> <tr><td>-0.244714</td><td>0.641611</td><td>-0.792900</td><td>0.792900</td><td>-0.641611</td><td>0.244714</td></tr> </table>						0.001914	0.054005	0.444081	0.444081	0.054005	0.001914	0.020330	-0.413584	-0.682843	0.682843	0.413584	-0.020330	-0.000905	0.916831	-0.915926	-0.915926	0.916831	-0.000905	-0.272851	-0.227279	1.473726	-1.473726	0.227279	0.272851	0.496226	-0.970088	0.473862	0.473862	-0.970088	0.496226	-0.244714	0.641611	-0.792900	0.792900	-0.641611	0.244714															
0.001914	0.054005	0.444081	0.444081	0.054005	0.001914																																																				
0.020330	-0.413584	-0.682843	0.682843	0.413584	-0.020330																																																				
-0.000905	0.916831	-0.915926	-0.915926	0.916831	-0.000905																																																				
-0.272851	-0.227279	1.473726	-1.473726	0.227279	0.272851																																																				
0.496226	-0.970088	0.473862	0.473862	-0.970088	0.496226																																																				
-0.244714	0.641611	-0.792900	0.792900	-0.641611	0.244714																																																				
B⁻¹	6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.002525</td><td>0.009926</td><td>0.212042</td><td>0.551016</td><td>0.212042</td><td>0.009926</td><td>0.002525</td></tr> <tr><td>0.005469</td><td>-0.147132</td><td>-0.828820</td><td>0.000000</td><td>0.828820</td><td>0.147132</td><td>-0.005469</td></tr> <tr><td>-0.051546</td><td>0.691264</td><td>0.368931</td><td>-2.017299</td><td>0.368931</td><td>0.691264</td><td>-0.051546</td></tr> <tr><td>-0.013728</td><td>-1.008610</td><td>1.734068</td><td>0.000000</td><td>-1.734068</td><td>1.008610</td><td>0.013728</td></tr> <tr><td>0.343248</td><td>-0.088754</td><td>-1.475367</td><td>2.441746</td><td>-1.475367</td><td>-0.088754</td><td>0.343248</td></tr> <tr><td>-0.489013</td><td>1.155742</td><td>-0.906977</td><td>0.000000</td><td>0.906977</td><td>-1.155742</td><td>0.489013</td></tr> <tr><td>0.203216</td><td>-0.612436</td><td>0.896951</td><td>-0.975463</td><td>0.896951</td><td>-0.612436</td><td>0.203216</td></tr> </table>							0.002525	0.009926	0.212042	0.551016	0.212042	0.009926	0.002525	0.005469	-0.147132	-0.828820	0.000000	0.828820	0.147132	-0.005469	-0.051546	0.691264	0.368931	-2.017299	0.368931	0.691264	-0.051546	-0.013728	-1.008610	1.734068	0.000000	-1.734068	1.008610	0.013728	0.343248	-0.088754	-1.475367	2.441746	-1.475367	-0.088754	0.343248	-0.489013	1.155742	-0.906977	0.000000	0.906977	-1.155742	0.489013	0.203216	-0.612436	0.896951	-0.975463	0.896951	-0.612436	0.203216
0.002525	0.009926	0.212042	0.551016	0.212042	0.009926	0.002525																																																			
0.005469	-0.147132	-0.828820	0.000000	0.828820	0.147132	-0.005469																																																			
-0.051546	0.691264	0.368931	-2.017299	0.368931	0.691264	-0.051546																																																			
-0.013728	-1.008610	1.734068	0.000000	-1.734068	1.008610	0.013728																																																			
0.343248	-0.088754	-1.475367	2.441746	-1.475367	-0.088754	0.343248																																																			
-0.489013	1.155742	-0.906977	0.000000	0.906977	-1.155742	0.489013																																																			
0.203216	-0.612436	0.896951	-0.975463	0.896951	-0.612436	0.203216																																																			
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3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.020433</td><td>1.013797</td><td>-1.009295</td></tr> <tr><td>1.000000</td><td>-0.540983</td><td>-0.040579</td><td>0.298991</td></tr> <tr><td>1.000000</td><td>0.540983</td><td>-0.040579</td><td>-0.298991</td></tr> <tr><td>1.000000</td><td>1.020433</td><td>1.013797</td><td>1.009295</td></tr> </table>							1.000000	-1.020433	1.013797	-1.009295	1.000000	-0.540983	-0.040579	0.298991	1.000000	0.540983	-0.040579	-0.298991	1.000000	1.020433	1.013797	1.009295																																		
1.000000	-1.020433	1.013797	-1.009295																																																						
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1.000000	1.020433	1.013797	1.009295																																																						
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1.000000	-1.013632	1.008328	-1.013632	1.005414																																																					
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1.000000	0.686505	0.328883	0.023804	-0.220271																																																					
1.000000	1.013632	1.008328	1.013632	1.005414																																																					
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.005471</td><td>1.005090</td><td>-1.006392</td><td>1.005581</td><td>-1.004626</td></tr> <tr><td>1.000000</td><td>-0.758010</td><td>0.483305</td><td>-0.240705</td><td>-0.002976</td><td>0.205408</td></tr> <tr><td>1.000000</td><td>-0.303057</td><td>-0.063107</td><td>0.115827</td><td>-0.003972</td><td>-0.154322</td></tr> <tr><td>1.000000</td><td>0.303057</td><td>-0.063107</td><td>-0.115827</td><td>-0.003972</td><td>0.154322</td></tr> <tr><td>1.000000</td><td>0.758010</td><td>0.483305</td><td>0.240705</td><td>-0.002976</td><td>-0.205408</td></tr> <tr><td>1.000000</td><td>1.005471</td><td>1.005090</td><td>1.006392</td><td>1.005581</td><td>1.004626</td></tr> </table>							1.000000	-1.005471	1.005090	-1.006392	1.005581	-1.004626	1.000000	-0.758010	0.483305	-0.240705	-0.002976	0.205408	1.000000	-0.303057	-0.063107	0.115827	-0.003972	-0.154322	1.000000	0.303057	-0.063107	-0.115827	-0.003972	0.154322	1.000000	0.758010	0.483305	0.240705	-0.002976	-0.205408	1.000000	1.005471	1.005090	1.006392	1.005581	1.004626														
1.000000	-1.005471	1.005090	-1.006392	1.005581	-1.004626																																																				
1.000000	-0.758010	0.483305	-0.240705	-0.002976	0.205408																																																				
1.000000	-0.303057	-0.063107	0.115827	-0.003972	-0.154322																																																				
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1.000000	0.758010	0.483305	0.240705	-0.002976	-0.205408																																																				
1.000000	1.005471	1.005090	1.006392	1.005581	1.004626																																																				
B⁻¹	6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.003855</td><td>1.004594</td><td>-1.005696</td><td>1.005546</td><td>-1.005462</td><td>1.004382</td></tr> <tr><td>1.000000</td><td>-0.792904</td><td>0.578203</td><td>-0.378065</td><td>0.182506</td><td>0.001746</td><td>-0.174029</td></tr> <tr><td>1.000000</td><td>-0.469135</td><td>0.106350</td><td>0.060478</td><td>-0.078809</td><td>-0.006944</td><td>0.147667</td></tr> <tr><td>1.000000</td><td>0.000000</td><td>-0.111888</td><td>0.000000</td><td>0.044865</td><td>0.000000</td><td>-0.116585</td></tr> <tr><td>1.000000</td><td>0.469135</td><td>0.106350</td><td>-0.060478</td><td>-0.078809</td><td>0.006944</td><td>0.147667</td></tr> <tr><td>1.000000</td><td>0.792904</td><td>0.578203</td><td>0.378065</td><td>0.182506</td><td>-0.001746</td><td>-0.174029</td></tr> <tr><td>1.000000</td><td>1.003855</td><td>1.004594</td><td>1.005696</td><td>1.005546</td><td>1.005462</td><td>1.004382</td></tr> </table>							1.000000	-1.003855	1.004594	-1.005696	1.005546	-1.005462	1.004382	1.000000	-0.792904	0.578203	-0.378065	0.182506	0.001746	-0.174029	1.000000	-0.469135	0.106350	0.060478	-0.078809	-0.006944	0.147667	1.000000	0.000000	-0.111888	0.000000	0.044865	0.000000	-0.116585	1.000000	0.469135	0.106350	-0.060478	-0.078809	0.006944	0.147667	1.000000	0.792904	0.578203	0.378065	0.182506	-0.001746	-0.174029	1.000000	1.003855	1.004594	1.005696	1.005546	1.005462	1.004382
1.000000	-1.003855	1.004594	-1.005696	1.005546	-1.005462	1.004382																																																			
1.000000	-0.792904	0.578203	-0.378065	0.182506	0.001746	-0.174029																																																			
1.000000	-0.469135	0.106350	0.060478	-0.078809	-0.006944	0.147667																																																			
1.000000	0.000000	-0.111888	0.000000	0.044865	0.000000	-0.116585																																																			
1.000000	0.469135	0.106350	-0.060478	-0.078809	0.006944	0.147667																																																			
1.000000	0.792904	0.578203	0.378065	0.182506	-0.001746	-0.174029																																																			
1.000000	1.003855	1.004594	1.005696	1.005546	1.005462	1.004382																																																			

Table 2: Values of the matrices **B** and **B⁻¹** for the MinVariance basis functions from order 1 to 6.

matrice	order	value									
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.500000</td><td>0.500000</td></tr> <tr><td>-0.500000</td><td>0.500000</td></tr> </table>						0.500000	0.500000	-0.500000	0.500000
0.500000	0.500000										
-0.500000	0.500000										
2			0.125000	0.750000	0.125000						
			-0.250000	0.000000	0.250000						
			0.125000	-0.250000	0.125000						
3			0.020833	0.479167	0.479167	0.020833					
			-0.062500	-0.312500	0.312500	0.062500					
				0.062500	-0.062500	-0.062500	0.062500				
				-0.020833	0.062500	-0.062500	0.020833				
	4			0.002604	0.197917	0.598958	0.197917				
				-0.010417	-0.229167	0.000000	0.229167				
				0.015625	0.062500	-0.156250	0.062500				
				-0.010417	0.020833	0.000000	-0.020833				
				0.002604	-0.010417	0.015625	-0.010417				
	5			0.000260	0.061719	0.438021	0.438021				
				-0.001302	-0.097656	-0.200521	0.200521				
				0.002604	0.054688	-0.057292	-0.057292				
				-0.002604	-0.007812	0.036458	-0.036458				
				0.001302	-0.003906	0.002604	-0.003906				
	6			-0.000260	0.001302	-0.002604	0.002604				
				0.000022	0.015668	0.228798	0.511024				
				-0.000130	-0.030729	-0.188151	0.000000				
				0.000326	0.024089	0.025716	-0.100260				
				-0.000434	-0.008681	0.018663	0.000000				
				0.000326	0.000651	-0.005534	0.009115				
B ⁻¹	1			1.000000	-1.000000						
				1.000000	1.000000						
	2			1.000000	-2.000000	3.000000					
				1.000000	0.000000	-1.000000					
				1.000000	2.000000	3.000000					
	3			1.000000	-3.000000	7.666667	-15.000000				
				1.000000	-1.000000	-0.333333	3.000000				
				1.000000	1.000000	-0.333333	-3.000000				
				1.000000	3.000000	7.666667	15.000000				
	4			1.000000	-4.000000	14.333333	-44.000000				
				1.000000	-2.000000	2.333333	2.000000				
				1.000000	0.000000	-1.666667	0.000000				
				1.000000	2.000000	2.333333	-2.000000				
				1.000000	4.000000	14.333333	44.000000				
	5			1.000000	-5.000000	23.000000	-95.000000				
				1.000000	-3.000000	7.000000	-9.000000				
				1.000000	-1.000000	-1.000000	5.000000				
				1.000000	1.000000	-1.000000	-5.000000				
				1.000000	3.000000	7.000000	9.000000				
				1.000000	5.000000	23.000000	95.000000				
	6			1.000000	-6.000000	33.666667	-174.000000				
				1.000000	-4.000000	13.666667	-36.000000				
				1.000000	-2.000000	1.666667	6.000000				
				1.000000	0.000000	-2.333333	0.000000				

Table 3: Values of the matrices **B** and **B**⁻¹ for the BSplines basis functions from order 1 to 6.

matrice	order	value																																																																													
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>0.500000</td><td>0.500000</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.500000</td><td>0.500000</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										0.500000	0.500000									-0.500000	0.500000																																																								
		0.500000	0.500000																																																																												
		-0.500000	0.500000																																																																												
2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>0.178806</td><td>0.642387</td><td>0.178806</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.479297</td><td>0.000000</td><td>0.479297</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>0.321194</td><td>-0.642387</td><td>0.321194</td><td></td><td></td><td></td><td></td><td></td></tr> </table>									0.178806	0.642387	0.178806								-0.479297	0.000000	0.479297								0.321194	-0.642387	0.321194																																															
		0.178806	0.642387	0.178806																																																																											
		-0.479297	0.000000	0.479297																																																																											
		0.321194	-0.642387	0.321194																																																																											
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>0.028323</td><td>0.471677</td><td>0.471677</td><td>0.028323</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.208384</td><td>-0.572950</td><td>0.572950</td><td>0.208384</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>0.466241</td><td>-0.466241</td><td>-0.466241</td><td>0.466241</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.286180</td><td>0.578386</td><td>-0.578386</td><td>0.286180</td><td></td><td></td><td></td><td></td></tr> </table>										0.028323	0.471677	0.471677	0.028323							-0.208384	-0.572950	0.572950	0.208384							0.466241	-0.466241	-0.466241	0.466241							-0.286180	0.578386	-0.578386	0.286180																																			
		0.028323	0.471677	0.471677	0.028323																																																																										
		-0.208384	-0.572950	0.572950	0.208384																																																																										
		0.466241	-0.466241	-0.466241	0.466241																																																																										
		-0.286180	0.578386	-0.578386	0.286180																																																																										
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>0.001808</td><td>0.232346</td><td>0.531691</td><td>0.232346</td><td>0.001808</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.040769</td><td>-0.719547</td><td>0.000000</td><td>0.719547</td><td>0.040769</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>0.270116</td><td>0.324740</td><td>-1.189712</td><td>0.324740</td><td>0.270116</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.454129</td><td>0.719547</td><td>0.000000</td><td>-0.719547</td><td>0.454129</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>0.224324</td><td>-0.557086</td><td>0.665525</td><td>-0.557086</td><td>0.224324</td><td></td><td></td><td></td></tr> </table>										0.001808	0.232346	0.531691	0.232346	0.001808						-0.040769	-0.719547	0.000000	0.719547	0.040769						0.270116	0.324740	-1.189712	0.324740	0.270116						-0.454129	0.719547	0.000000	-0.719547	0.454129						0.224324	-0.557086	0.665525	-0.557086	0.224324																								
		0.001808	0.232346	0.531691	0.232346	0.001808																																																																									
		-0.040769	-0.719547	0.000000	0.719547	0.040769																																																																									
		0.270116	0.324740	-1.189712	0.324740	0.270116																																																																									
		-0.454129	0.719547	0.000000	-0.719547	0.454129																																																																									
		0.224324	-0.557086	0.665525	-0.557086	0.224324																																																																									
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>0.000548</td><td>0.087040</td><td>0.412412</td><td>0.412412</td><td>0.087040</td><td>0.000548</td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.013185</td><td>-0.484330</td><td>-0.611879</td><td>0.611879</td><td>0.484330</td><td>0.013185</td><td></td><td></td></tr> <tr><td></td><td></td><td>0.104674</td><td>0.774368</td><td>-0.879042</td><td>-0.879042</td><td>0.774368</td><td>0.104674</td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.313820</td><td>0.006407</td><td>1.345160</td><td>-1.345160</td><td>-0.006407</td><td>0.313820</td><td></td><td></td></tr> <tr><td></td><td></td><td>0.390724</td><td>-0.861075</td><td>0.470351</td><td>0.470351</td><td>-0.861075</td><td>0.390724</td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.168943</td><td>0.478256</td><td>-0.737001</td><td>0.737001</td><td>-0.478256</td><td>0.168943</td><td></td><td></td></tr> </table>										0.000548	0.087040	0.412412	0.412412	0.087040	0.000548					-0.013185	-0.484330	-0.611879	0.611879	0.484330	0.013185					0.104674	0.774368	-0.879042	-0.879042	0.774368	0.104674					-0.313820	0.006407	1.345160	-1.345160	-0.006407	0.313820					0.390724	-0.861075	0.470351	0.470351	-0.861075	0.390724					-0.168943	0.478256	-0.737001	0.737001	-0.478256	0.168943													
		0.000548	0.087040	0.412412	0.412412	0.087040	0.000548																																																																								
		-0.013185	-0.484330	-0.611879	0.611879	0.484330	0.013185																																																																								
		0.104674	0.774368	-0.879042	-0.879042	0.774368	0.104674																																																																								
		-0.313820	0.006407	1.345160	-1.345160	-0.006407	0.313820																																																																								
		0.390724	-0.861075	0.470351	0.470351	-0.861075	0.390724																																																																								
		-0.168943	0.478256	-0.737001	0.737001	-0.478256	0.168943																																																																								
B⁻¹	6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>0.000246</td><td>0.039541</td><td>0.234007</td><td>0.452411</td><td>0.234007</td><td>0.039541</td><td>0.000246</td><td></td></tr> <tr><td></td><td></td><td>-0.004996</td><td>-0.286016</td><td>-0.769529</td><td>0.000000</td><td>0.769529</td><td>0.286016</td><td>0.004996</td><td></td></tr> <tr><td></td><td></td><td>0.040290</td><td>0.715108</td><td>0.132833</td><td>-1.776461</td><td>0.132833</td><td>0.715108</td><td>0.040290</td><td></td></tr> <tr><td></td><td></td><td>-0.162385</td><td>-0.572706</td><td>1.643712</td><td>0.000000</td><td>-1.643712</td><td>0.572706</td><td>0.162385</td><td></td></tr> <tr><td></td><td></td><td>0.336335</td><td>-0.398220</td><td>-1.084518</td><td>2.292808</td><td>-1.084518</td><td>-0.398220</td><td>0.336335</td><td></td></tr> <tr><td></td><td></td><td>-0.328442</td><td>0.858721</td><td>-0.877742</td><td>0.000000</td><td>0.877742</td><td>-0.858721</td><td>0.328442</td><td></td></tr> <tr><td></td><td></td><td>0.119119</td><td>-0.356428</td><td>0.721688</td><td>-0.968758</td><td>0.721688</td><td>-0.356428</td><td>0.119119</td><td></td></tr> </table>										0.000246	0.039541	0.234007	0.452411	0.234007	0.039541	0.000246				-0.004996	-0.286016	-0.769529	0.000000	0.769529	0.286016	0.004996				0.040290	0.715108	0.132833	-1.776461	0.132833	0.715108	0.040290				-0.162385	-0.572706	1.643712	0.000000	-1.643712	0.572706	0.162385				0.336335	-0.398220	-1.084518	2.292808	-1.084518	-0.398220	0.336335				-0.328442	0.858721	-0.877742	0.000000	0.877742	-0.858721	0.328442				0.119119	-0.356428	0.721688	-0.968758	0.721688	-0.356428	0.119119	
		0.000246	0.039541	0.234007	0.452411	0.234007	0.039541	0.000246																																																																							
		-0.004996	-0.286016	-0.769529	0.000000	0.769529	0.286016	0.004996																																																																							
		0.040290	0.715108	0.132833	-1.776461	0.132833	0.715108	0.040290																																																																							
		-0.162385	-0.572706	1.643712	0.000000	-1.643712	0.572706	0.162385																																																																							
		0.336335	-0.398220	-1.084518	2.292808	-1.084518	-0.398220	0.336335																																																																							
		-0.328442	0.858721	-0.877742	0.000000	0.877742	-0.858721	0.328442																																																																							
		0.119119	-0.356428	0.721688	-0.968758	0.721688	-0.356428	0.119119																																																																							
1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.000000</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.000000</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										1.000000	-1.000000									1.000000	1.000000																																																									
		1.000000	-1.000000																																																																												
		1.000000	1.000000																																																																												
2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.043194</td><td>1.000000</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.000000</td><td>-0.556693</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.043194</td><td>1.000000</td><td></td><td></td><td></td><td></td><td></td></tr> </table>										1.000000	-1.043194	1.000000								1.000000	0.000000	-0.556693								1.000000	1.043194	1.000000																																														
		1.000000	-1.043194	1.000000																																																																											
		1.000000	0.000000	-0.556693																																																																											
		1.000000	1.043194	1.000000																																																																											
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.016520</td><td>1.011659</td><td>-1.006966</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.502965</td><td>-0.060748</td><td>0.366237</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.502965</td><td>-0.060748</td><td>-0.366237</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.016520</td><td>1.011659</td><td>1.006966</td><td></td><td></td><td></td><td></td></tr> </table>										1.000000	-1.016520	1.011659	-1.006966							1.000000	-0.502965	-0.060748	0.366237							1.000000	0.502965	-0.060748	-0.366237							1.000000	1.016520	1.011659	1.006966																																			
		1.000000	-1.016520	1.011659	-1.006966																																																																										
		1.000000	-0.502965	-0.060748	0.366237																																																																										
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4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.010308</td><td>1.009359</td><td>-1.010308</td><td>1.005456</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.637638</td><td>0.264341</td><td>0.057244</td><td>-0.326362</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.000000</td><td>-0.237895</td><td>-0.000000</td><td>0.278399</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.637638</td><td>0.264341</td><td>-0.057244</td><td>-0.326362</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.010308</td><td>1.009359</td><td>1.010308</td><td>1.005456</td><td></td><td></td><td></td></tr> </table>										1.000000	-1.010308	1.009359	-1.010308	1.005456						1.000000	-0.637638	0.264341	0.057244	-0.326362						1.000000	-0.000000	-0.237895	-0.000000	0.278399						1.000000	0.637638	0.264341	-0.057244	-0.326362						1.000000	1.010308	1.009359	1.010308	1.005456																								
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		1.000000	1.010308	1.009359	1.010308	1.005456																																																																									
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.006914</td><td>1.008556</td><td>-1.009297</td><td>1.008081</td><td>-1.006181</td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.712459</td><td>0.409683</td><td>-0.145518</td><td>-0.111157</td><td>0.325908</td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.231515</td><td>-0.087805</td><td>0.136932</td><td>0.022119</td><td>-0.236290</td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.231515</td><td>-0.087805</td><td>-0.136932</td><td>0.022119</td><td>0.236290</td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.712459</td><td>0.409683</td><td>0.145518</td><td>-0.111157</td><td>-0.325908</td><td></td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.006914</td><td>1.008556</td><td>1.009297</td><td>1.008081</td><td>1.006181</td><td></td><td></td></tr> </table>										1.000000	-1.006914	1.008556	-1.009297	1.008081	-1.006181					1.000000	-0.712459	0.409683	-0.145518	-0.111157	0.325908					1.000000	-0.231515	-0.087805	0.136932	0.022119	-0.236290					1.000000	0.231515	-0.087805	-0.136932	0.022119	0.236290					1.000000	0.712459	0.409683	0.145518	-0.111157	-0.325908					1.000000	1.006914	1.008556	1.009297	1.008081	1.006181													
		1.000000	-1.006914	1.008556	-1.009297	1.008081	-1.006181																																																																								
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		1.000000	1.006914	1.008556	1.009297	1.008081	1.006181																																																																								
B⁻¹	6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td>1.000000</td><td>-1.005823</td><td>1.007968</td><td>-1.009204</td><td>1.008783</td><td>-1.008078</td><td>1.006174</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.755246</td><td>0.509137</td><td>-0.274875</td><td>0.056328</td><td>0.147388</td><td>-0.333314</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.362511</td><td>0.014527</td><td>0.108716</td><td>-0.086189</td><td>-0.048237</td><td>0.236376</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>-0.000000</td><td>-0.105121</td><td>0.000000</td><td>0.078218</td><td>-0.000000</td><td>-0.187359</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.362511</td><td>0.014527</td><td>-0.108716</td><td>-0.086189</td><td>0.048237</td><td>0.236376</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>0.755246</td><td>0.509137</td><td>0.274875</td><td>0.056328</td><td>-0.147388</td><td>-0.333314</td><td></td></tr> <tr><td></td><td></td><td>1.000000</td><td>1.005823</td><td>1.007968</td><td>1.009204</td><td>1.008783</td><td>1.008078</td><td>1.006174</td><td></td></tr> </table>										1.000000	-1.005823	1.007968	-1.009204	1.008783	-1.008078	1.006174				1.000000	-0.755246	0.509137	-0.274875	0.056328	0.147388	-0.333314				1.000000	-0.362511	0.014527	0.108716	-0.086189	-0.048237	0.236376				1.000000	-0.000000	-0.105121	0.000000	0.078218	-0.000000	-0.187359				1.000000	0.362511	0.014527	-0.108716	-0.086189	0.048237	0.236376				1.000000	0.755246	0.509137	0.274875	0.056328	-0.147388	-0.333314				1.000000	1.005823	1.007968	1.009204	1.008783	1.008078	1.006174	
		1.000000	-1.005823	1.007968	-1.009204	1.008783	-1.008078	1.006174																																																																							
		1.000000	-0.755246	0.509137	-0.274875	0.056328	0.147388	-0.333314																																																																							
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		1.000000	0.755246	0.509137	0.274875	0.056328	-0.147388	-0.333314																																																																							
		1.000000	1.005823	1.007968	1.009204	1.008783	1.008078	1.006174																																																																							

Table 4: Values of the matrices **B** and **B⁻¹** for the MinNorm basis functions from order 1 to 6.

matrice	order	value																																																						
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.500000</td><td>0.500000</td></tr> <tr><td>-0.500000</td><td>0.500000</td></tr> </table>							0.500000	0.500000	-0.500000	0.500000																																												
0.500000	0.500000																																																							
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2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.125000</td><td>0.750000</td><td>0.125000</td></tr> <tr><td>-0.433013</td><td>0.000000</td><td>0.433013</td></tr> <tr><td>0.375000</td><td>-0.750000</td><td>0.375000</td></tr> </table>							0.125000	0.750000	0.125000	-0.433013	0.000000	0.433013	0.375000	-0.750000	0.375000																																								
0.125000	0.750000	0.125000																																																						
-0.433013	0.000000	0.433013																																																						
0.375000	-0.750000	0.375000																																																						
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.000410</td><td>0.499590</td><td>0.499590</td><td>0.000410</td></tr> <tr><td>-0.026982</td><td>-0.792093</td><td>0.792093</td><td>0.026982</td></tr> <tr><td>0.456775</td><td>-0.456775</td><td>-0.456775</td><td>0.456775</td></tr> <tr><td>-0.430204</td><td>0.834907</td><td>-0.834907</td><td>0.430204</td></tr> </table>							0.000410	0.499590	0.499590	0.000410	-0.026982	-0.792093	0.792093	0.026982	0.456775	-0.456775	-0.456775	0.456775	-0.430204	0.834907	-0.834907	0.430204																																	
0.000410	0.499590	0.499590	0.000410																																																					
-0.026982	-0.792093	0.792093	0.026982																																																					
0.456775	-0.456775	-0.456775	0.456775																																																					
-0.430204	0.834907	-0.834907	0.430204																																																					
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.030227</td><td>0.148259</td><td>0.643029</td><td>0.148259</td><td>0.030227</td></tr> <tr><td>0.138091</td><td>-0.810775</td><td>0.000000</td><td>0.810775</td><td>-0.138091</td></tr> <tr><td>-0.094352</td><td>0.960202</td><td>-1.731700</td><td>0.960202</td><td>-0.094352</td></tr> <tr><td>-0.575789</td><td>0.810775</td><td>0.000000</td><td>-0.810775</td><td>0.575789</td></tr> <tr><td>0.525520</td><td>-1.108461</td><td>1.165882</td><td>-1.108461</td><td>0.525520</td></tr> </table>						0.030227	0.148259	0.643029	0.148259	0.030227	0.138091	-0.810775	0.000000	0.810775	-0.138091	-0.094352	0.960202	-1.731700	0.960202	-0.094352	-0.575789	0.810775	0.000000	-0.810775	0.575789	0.525520	-1.108461	1.165882	-1.108461	0.525520																									
0.030227	0.148259	0.643029	0.148259	0.030227																																																				
0.138091	-0.810775	0.000000	0.810775	-0.138091																																																				
-0.094352	0.960202	-1.731700	0.960202	-0.094352																																																				
-0.575789	0.810775	0.000000	-0.810775	0.575789																																																				
0.525520	-1.108461	1.165882	-1.108461	0.525520																																																				
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.045894</td><td>0.002895</td><td>0.451210</td><td>0.451210</td><td>0.002895</td><td>0.045894</td></tr> <tr><td>-0.036501</td><td>-0.120977</td><td>-1.064403</td><td>1.064403</td><td>0.120977</td><td>0.036501</td></tr> <tr><td>-0.377284</td><td>1.333003</td><td>-0.955718</td><td>-0.955718</td><td>1.333003</td><td>-0.377284</td></tr> <tr><td>0.330192</td><td>-1.365550</td><td>2.776543</td><td>-2.776543</td><td>1.365550</td><td>-0.330192</td></tr> <tr><td>0.776885</td><td>-1.319318</td><td>0.542433</td><td>0.542433</td><td>-1.319318</td><td>0.776885</td></tr> <tr><td>-0.739186</td><td>1.503106</td><td>-1.750066</td><td>1.750066</td><td>-1.503106</td><td>0.739186</td></tr> </table>						0.045894	0.002895	0.451210	0.451210	0.002895	0.045894	-0.036501	-0.120977	-1.064403	1.064403	0.120977	0.036501	-0.377284	1.333003	-0.955718	-0.955718	1.333003	-0.377284	0.330192	-1.365550	2.776543	-2.776543	1.365550	-0.330192	0.776885	-1.319318	0.542433	0.542433	-1.319318	0.776885	-0.739186	1.503106	-1.750066	1.750066	-1.503106	0.739186														
0.045894	0.002895	0.451210	0.451210	0.002895	0.045894																																																			
-0.036501	-0.120977	-1.064403	1.064403	0.120977	0.036501																																																			
-0.377284	1.333003	-0.955718	-0.955718	1.333003	-0.377284																																																			
0.330192	-1.365550	2.776543	-2.776543	1.365550	-0.330192																																																			
0.776885	-1.319318	0.542433	0.542433	-1.319318	0.776885																																																			
-0.739186	1.503106	-1.750066	1.750066	-1.503106	0.739186																																																			
6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.018328</td><td>0.031209</td><td>0.152009</td><td>0.596907</td><td>0.152009</td><td>0.031209</td><td>0.018328</td></tr> <tr><td>-0.136709</td><td>0.243263</td><td>-1.080915</td><td>0.000000</td><td>1.080915</td><td>-0.243263</td><td>0.136709</td></tr> <tr><td>0.105859</td><td>-0.084538</td><td>1.580291</td><td>-3.203224</td><td>1.580291</td><td>-0.084538</td><td>0.105859</td></tr> <tr><td>0.834817</td><td>-2.298575</td><td>2.468184</td><td>0.000000</td><td>-2.468184</td><td>2.298575</td><td>-0.834817</td></tr> <tr><td>-0.736850</td><td>2.281168</td><td>-4.269993</td><td>5.451350</td><td>-4.269993</td><td>2.281168</td><td>-0.736850</td></tr> <tr><td>-1.134019</td><td>2.055312</td><td>-1.408577</td><td>0.000000</td><td>1.408577</td><td>-2.055312</td><td>1.134019</td></tr> <tr><td>1.060626</td><td>-2.227839</td><td>2.589730</td><td>-2.845034</td><td>2.589730</td><td>-2.227839</td><td>1.060626</td></tr> </table>							0.018328	0.031209	0.152009	0.596907	0.152009	0.031209	0.018328	-0.136709	0.243263	-1.080915	0.000000	1.080915	-0.243263	0.136709	0.105859	-0.084538	1.580291	-3.203224	1.580291	-0.084538	0.105859	0.834817	-2.298575	2.468184	0.000000	-2.468184	2.298575	-0.834817	-0.736850	2.281168	-4.269993	5.451350	-4.269993	2.281168	-0.736850	-1.134019	2.055312	-1.408577	0.000000	1.408577	-2.055312	1.134019	1.060626	-2.227839	2.589730	-2.845034	2.589730	-2.227839	1.060626
0.018328	0.031209	0.152009	0.596907	0.152009	0.031209	0.018328																																																		
-0.136709	0.243263	-1.080915	0.000000	1.080915	-0.243263	0.136709																																																		
0.105859	-0.084538	1.580291	-3.203224	1.580291	-0.084538	0.105859																																																		
0.834817	-2.298575	2.468184	0.000000	-2.468184	2.298575	-0.834817																																																		
-0.736850	2.281168	-4.269993	5.451350	-4.269993	2.281168	-0.736850																																																		
-1.134019	2.055312	-1.408577	0.000000	1.408577	-2.055312	1.134019																																																		
1.060626	-2.227839	2.589730	-2.845034	2.589730	-2.227839	1.060626																																																		
B⁻¹	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.000000</td></tr> <tr><td>1.000000</td><td>1.000000</td></tr> </table>							1.000000	-1.000000	1.000000	1.000000																																												
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2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.154701</td><td>1.000000</td></tr> <tr><td>1.000000</td><td>0.000000</td><td>-0.333333</td></tr> <tr><td>1.000000</td><td>1.154701</td><td>1.000000</td></tr> </table>							1.000000	-1.154701	1.000000	1.000000	0.000000	-0.333333	1.000000	1.154701	1.000000																																								
1.000000	-1.154701	1.000000																																																						
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1.000000	1.154701	1.000000																																																						
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.149096</td><td>1.093732</td><td>-1.090170</td></tr> <tr><td>1.000000</td><td>-0.592096</td><td>-0.000898</td><td>0.037136</td></tr> <tr><td>1.000000</td><td>0.592096</td><td>-0.000898</td><td>-0.037136</td></tr> <tr><td>1.000000</td><td>1.149096</td><td>1.093732</td><td>1.090170</td></tr> </table>							1.000000	-1.149096	1.093732	-1.090170	1.000000	-0.592096	-0.000898	0.037136	1.000000	0.592096	-0.000898	-0.037136	1.000000	1.149096	1.093732	1.090170																																	
1.000000	-1.149096	1.093732	-1.090170																																																					
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1.000000	0.592096	-0.000898	-0.037136																																																					
1.000000	1.149096	1.093732	1.090170																																																					
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.142338</td><td>1.106977</td><td>-1.142338</td><td>1.092669</td></tr> <tr><td>1.000000</td><td>-0.811256</td><td>0.378336</td><td>-0.194562</td><td>0.010409</td></tr> <tr><td>1.000000</td><td>-0.000000</td><td>-0.278531</td><td>-0.000000</td><td>-0.107525</td></tr> <tr><td>1.000000</td><td>0.811256</td><td>0.378336</td><td>0.194562</td><td>0.010409</td></tr> <tr><td>1.000000</td><td>1.142338</td><td>1.106977</td><td>1.142338</td><td>1.092669</td></tr> </table>							1.000000	-1.142338	1.106977	-1.142338	1.092669	1.000000	-0.811256	0.378336	-0.194562	0.010409	1.000000	-0.000000	-0.278531	-0.000000	-0.107525	1.000000	0.811256	0.378336	0.194562	0.010409	1.000000	1.142338	1.106977	1.142338	1.092669																								
1.000000	-1.142338	1.106977	-1.142338	1.092669																																																				
1.000000	-0.811256	0.378336	-0.194562	0.010409																																																				
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1.000000	0.811256	0.378336	0.194562	0.010409																																																				
1.000000	1.142338	1.106977	1.142338	1.092669																																																				
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.129437</td><td>1.109754</td><td>-1.147162</td><td>1.123459</td><td>-1.133082</td></tr> <tr><td>1.000000</td><td>-0.933700</td><td>0.605476</td><td>-0.457764</td><td>0.234967</td><td>-0.158376</td></tr> <tr><td>1.000000</td><td>-0.324894</td><td>-0.116762</td><td>0.091367</td><td>-0.115779</td><td>0.056856</td></tr> <tr><td>1.000000</td><td>0.324894</td><td>-0.116762</td><td>-0.091367</td><td>-0.115779</td><td>-0.056856</td></tr> <tr><td>1.000000</td><td>0.933700</td><td>0.605476</td><td>0.457764</td><td>0.234967</td><td>0.158376</td></tr> <tr><td>1.000000</td><td>1.129437</td><td>1.109754</td><td>1.147162</td><td>1.123459</td><td>1.133082</td></tr> </table>							1.000000	-1.129437	1.109754	-1.147162	1.123459	-1.133082	1.000000	-0.933700	0.605476	-0.457764	0.234967	-0.158376	1.000000	-0.324894	-0.116762	0.091367	-0.115779	0.056856	1.000000	0.324894	-0.116762	-0.091367	-0.115779	-0.056856	1.000000	0.933700	0.605476	0.457764	0.234967	0.158376	1.000000	1.129437	1.109754	1.147162	1.123459	1.133082													
1.000000	-1.129437	1.109754	-1.147162	1.123459	-1.133082																																																			
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1.000000	0.324894	-0.116762	-0.091367	-0.115779	-0.056856																																																			
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1.000000	1.129437	1.109754	1.147162	1.123459	1.133082																																																			
6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.120437</td><td>1.105897</td><td>-1.147175</td><td>1.129137</td><td>-1.150340</td><td>1.128210</td></tr> <tr><td>1.000000</td><td>-0.990939</td><td>0.751557</td><td>-0.630814</td><td>0.445470</td><td>-0.344918</td><td>0.217191</td></tr> <tr><td>1.000000</td><td>-0.543877</td><td>0.088407</td><td>0.003123</td><td>-0.111657</td><td>0.067865</td><td>-0.103675</td></tr> <tr><td>1.000000</td><td>0.000000</td><td>-0.191530</td><td>0.000000</td><td>-0.059053</td><td>0.000000</td><td>-0.039190</td></tr> <tr><td>1.000000</td><td>0.543877</td><td>0.088407</td><td>-0.003123</td><td>-0.111657</td><td>-0.067865</td><td>-0.103675</td></tr> <tr><td>1.000000</td><td>0.990939</td><td>0.751557</td><td>0.630814</td><td>0.445470</td><td>0.344918</td><td>0.217191</td></tr> <tr><td>1.000000</td><td>1.120437</td><td>1.105897</td><td>1.147175</td><td>1.129137</td><td>1.150340</td><td>1.128210</td></tr> </table>							1.000000	-1.120437	1.105897	-1.147175	1.129137	-1.150340	1.128210	1.000000	-0.990939	0.751557	-0.630814	0.445470	-0.344918	0.217191	1.000000	-0.543877	0.088407	0.003123	-0.111657	0.067865	-0.103675	1.000000	0.000000	-0.191530	0.000000	-0.059053	0.000000	-0.039190	1.000000	0.543877	0.088407	-0.003123	-0.111657	-0.067865	-0.103675	1.000000	0.990939	0.751557	0.630814	0.445470	0.344918	0.217191	1.000000	1.120437	1.105897	1.147175	1.129137	1.150340	1.128210
1.000000	-1.120437	1.105897	-1.147175	1.129137	-1.150340	1.128210																																																		
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1.000000	0.000000	-0.191530	0.000000	-0.059053	0.000000	-0.039190																																																		
1.000000	0.543877	0.088407	-0.003123	-0.111657	-0.067865	-0.103675																																																		
1.000000	0.990939	0.751557	0.630814	0.445470	0.344918	0.217191																																																		
1.000000	1.120437	1.105897	1.147175	1.129137	1.150340	1.128210																																																		

Table 5: Values of the matrices **B** and **B⁻¹** for the MinVolume basis functions from order 1 to 6.

matrice	order	value																																																						
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.500000</td><td>0.500000</td></tr> <tr><td>-0.500000</td><td>0.500000</td></tr> </table>							0.500000	0.500000	-0.500000	0.500000																																												
0.500000	0.500000																																																							
-0.500000	0.500000																																																							
2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.124377</td><td>0.751246</td><td>0.124377</td></tr> <tr><td>-0.432291</td><td>0.000000</td><td>0.432291</td></tr> <tr><td>0.375623</td><td>-0.751246</td><td>0.375623</td></tr> </table>							0.124377	0.751246	0.124377	-0.432291	0.000000	0.432291	0.375623	-0.751246	0.375623																																								
0.124377	0.751246	0.124377																																																						
-0.432291	0.000000	0.432291																																																						
0.375623	-0.751246	0.375623																																																						
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.000649</td><td>0.499351</td><td>0.499351</td><td>0.000649</td></tr> <tr><td>-0.033676</td><td>-0.803260</td><td>0.803260</td><td>0.033676</td></tr> <tr><td>0.453110</td><td>-0.453110</td><td>-0.453110</td><td>0.453110</td></tr> <tr><td>-0.420083</td><td>0.849501</td><td>-0.849501</td><td>0.420083</td></tr> </table>							0.000649	0.499351	0.499351	0.000649	-0.033676	-0.803260	0.803260	0.033676	0.453110	-0.453110	-0.453110	0.453110	-0.420083	0.849501	-0.849501	0.420083																																	
0.000649	0.499351	0.499351	0.000649																																																					
-0.033676	-0.803260	0.803260	0.033676																																																					
0.453110	-0.453110	-0.453110	0.453110																																																					
-0.420083	0.849501	-0.849501	0.420083																																																					
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.035652</td><td>0.146138</td><td>0.636420</td><td>0.146138</td><td>0.035652</td></tr> <tr><td>0.149222</td><td>-0.808622</td><td>0.000000</td><td>0.808622</td><td>-0.149222</td></tr> <tr><td>-0.125047</td><td>0.972447</td><td>-1.694798</td><td>0.972447</td><td>-0.125047</td></tr> <tr><td>-0.588448</td><td>0.808622</td><td>0.000000</td><td>-0.808622</td><td>0.588448</td></tr> <tr><td>0.554424</td><td>-1.118584</td><td>1.128320</td><td>-1.118584</td><td>0.554424</td></tr> </table>						0.035652	0.146138	0.636420	0.146138	0.035652	0.149222	-0.808622	0.000000	0.808622	-0.149222	-0.125047	0.972447	-1.694798	0.972447	-0.125047	-0.588448	0.808622	0.000000	-0.808622	0.588448	0.554424	-1.118584	1.128320	-1.118584	0.554424																									
0.035652	0.146138	0.636420	0.146138	0.035652																																																				
0.149222	-0.808622	0.000000	0.808622	-0.149222																																																				
-0.125047	0.972447	-1.694798	0.972447	-0.125047																																																				
-0.588448	0.808622	0.000000	-0.808622	0.588448																																																				
0.554424	-1.118584	1.128320	-1.118584	0.554424																																																				
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.046170</td><td>0.000790</td><td>0.453040</td><td>0.453040</td><td>0.000790</td><td>0.046170</td></tr> <tr><td>-0.030551</td><td>-0.064281</td><td>-1.047189</td><td>1.047189</td><td>0.064281</td><td>0.030551</td></tr> <tr><td>-0.376843</td><td>1.346724</td><td>-0.969881</td><td>-0.969881</td><td>1.346724</td><td>-0.376843</td></tr> <tr><td>0.299901</td><td>-1.536987</td><td>2.717358</td><td>-2.717358</td><td>1.536987</td><td>-0.299901</td></tr> <tr><td>0.773030</td><td>-1.326775</td><td>0.553745</td><td>0.553745</td><td>-1.326775</td><td>0.773030</td></tr> <tr><td>-0.711707</td><td>1.622007</td><td>-1.707074</td><td>1.707074</td><td>-1.622007</td><td>0.711707</td></tr> </table>						0.046170	0.000790	0.453040	0.453040	0.000790	0.046170	-0.030551	-0.064281	-1.047189	1.047189	0.064281	0.030551	-0.376843	1.346724	-0.969881	-0.969881	1.346724	-0.376843	0.299901	-1.536987	2.717358	-2.717358	1.536987	-0.299901	0.773030	-1.326775	0.553745	0.553745	-1.326775	0.773030	-0.711707	1.622007	-1.707074	1.707074	-1.622007	0.711707														
0.046170	0.000790	0.453040	0.453040	0.000790	0.046170																																																			
-0.030551	-0.064281	-1.047189	1.047189	0.064281	0.030551																																																			
-0.376843	1.346724	-0.969881	-0.969881	1.346724	-0.376843																																																			
0.299901	-1.536987	2.717358	-2.717358	1.536987	-0.299901																																																			
0.773030	-1.326775	0.553745	0.553745	-1.326775	0.773030																																																			
-0.711707	1.622007	-1.707074	1.707074	-1.622007	0.711707																																																			
6	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.018148</td><td>0.034239</td><td>0.143952</td><td>0.607323</td><td>0.143952</td><td>0.034239</td><td>0.018148</td></tr> <tr><td>-0.137219</td><td>0.252439</td><td>-1.058872</td><td>0.000000</td><td>1.058872</td><td>-0.252439</td><td>0.137219</td></tr> <tr><td>0.112414</td><td>-0.122731</td><td>1.632940</td><td>-3.245245</td><td>1.632940</td><td>-0.122731</td><td>0.112414</td></tr> <tr><td>0.836717</td><td>-2.293984</td><td>2.375355</td><td>0.000000</td><td>-2.375355</td><td>2.293984</td><td>-0.836717</td></tr> <tr><td>-0.765241</td><td>2.327842</td><td>-4.313797</td><td>5.502391</td><td>-4.313797</td><td>2.327842</td><td>-0.765241</td></tr> <tr><td>-1.138248</td><td>2.041545</td><td>-1.331193</td><td>0.000000</td><td>1.331193</td><td>-2.041545</td><td>1.138248</td></tr> <tr><td>1.088642</td><td>-2.239350</td><td>2.582942</td><td>-2.864469</td><td>2.582942</td><td>-2.239350</td><td>1.088642</td></tr> </table>							0.018148	0.034239	0.143952	0.607323	0.143952	0.034239	0.018148	-0.137219	0.252439	-1.058872	0.000000	1.058872	-0.252439	0.137219	0.112414	-0.122731	1.632940	-3.245245	1.632940	-0.122731	0.112414	0.836717	-2.293984	2.375355	0.000000	-2.375355	2.293984	-0.836717	-0.765241	2.327842	-4.313797	5.502391	-4.313797	2.327842	-0.765241	-1.138248	2.041545	-1.331193	0.000000	1.331193	-2.041545	1.138248	1.088642	-2.239350	2.582942	-2.864469	2.582942	-2.239350	1.088642
0.018148	0.034239	0.143952	0.607323	0.143952	0.034239	0.018148																																																		
-0.137219	0.252439	-1.058872	0.000000	1.058872	-0.252439	0.137219																																																		
0.112414	-0.122731	1.632940	-3.245245	1.632940	-0.122731	0.112414																																																		
0.836717	-2.293984	2.375355	0.000000	-2.375355	2.293984	-0.836717																																																		
-0.765241	2.327842	-4.313797	5.502391	-4.313797	2.327842	-0.765241																																																		
-1.138248	2.041545	-1.331193	0.000000	1.331193	-2.041545	1.138248																																																		
1.088642	-2.239350	2.582942	-2.864469	2.582942	-2.239350	1.088642																																																		
B⁻¹	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.000000</td></tr> <tr><td>1.000000</td><td>1.000000</td></tr> </table>							1.000000	-1.000000	1.000000	1.000000																																												
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2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.156628</td><td>1.000000</td></tr> <tr><td>1.000000</td><td>0.000000</td><td>-0.331122</td></tr> <tr><td>1.000000</td><td>1.156628</td><td>1.000000</td></tr> </table>							1.000000	-1.156628	1.000000	1.000000	0.000000	-0.331122	1.000000	1.156628	1.000000																																								
1.000000	-1.156628	1.000000																																																						
1.000000	0.000000	-0.331122																																																						
1.000000	1.156628	1.000000																																																						
3	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.160380</td><td>1.102051</td><td>-1.097218</td></tr> <tr><td>1.000000</td><td>-0.573815</td><td>-0.001433</td><td>0.046001</td></tr> <tr><td>1.000000</td><td>0.573815</td><td>-0.001433</td><td>-0.046001</td></tr> <tr><td>1.000000</td><td>1.160380</td><td>1.102051</td><td>1.097218</td></tr> </table>							1.000000	-1.160380	1.102051	-1.097218	1.000000	-0.573815	-0.001433	0.046001	1.000000	0.573815	-0.001433	-0.046001	1.000000	1.160380	1.102051	1.097218																																	
1.000000	-1.160380	1.102051	-1.097218																																																					
1.000000	-0.573815	-0.001433	0.046001																																																					
1.000000	0.573815	-0.001433	-0.046001																																																					
1.000000	1.160380	1.102051	1.097218																																																					
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.138365</td><td>1.097973</td><td>-1.138365</td><td>1.085173</td></tr> <tr><td>1.000000</td><td>-0.828408</td><td>0.391487</td><td>-0.210072</td><td>0.023992</td></tr> <tr><td>1.000000</td><td>-0.000000</td><td>-0.302808</td><td>0.000000</td><td>-0.132602</td></tr> <tr><td>1.000000</td><td>0.828408</td><td>0.391487</td><td>0.210072</td><td>0.023992</td></tr> <tr><td>1.000000</td><td>1.138365</td><td>1.097973</td><td>1.138365</td><td>1.085173</td></tr> </table>							1.000000	-1.138365	1.097973	-1.138365	1.085173	1.000000	-0.828408	0.391487	-0.210072	0.023992	1.000000	-0.000000	-0.302808	0.000000	-0.132602	1.000000	0.828408	0.391487	0.210072	0.023992	1.000000	1.138365	1.097973	1.138365	1.085173																								
1.000000	-1.138365	1.097973	-1.138365	1.085173																																																				
1.000000	-0.828408	0.391487	-0.210072	0.023992																																																				
1.000000	-0.000000	-0.302808	0.000000	-0.132602																																																				
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1.000000	1.138365	1.097973	1.138365	1.085173																																																				
5	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1.000000</td><td>-1.140533</td><td>1.111718</td><td>-1.156170</td><td>1.129029</td><td>-1.140767</td></tr> <tr><td>1.000000</td><td>-0.909198</td><td>0.600007</td><td>-0.443176</td><td>0.232770</td><td>-0.147718</td></tr> <tr><td>1.000000</td><td>-0.388384</td><td>-0.114344</td><td>0.060935</td><td>-0.115468</td><td>0.042349</td></tr> <tr><td>1.000000</td><td>0.388384</td><td>-0.114344</td><td>-0.060935</td><td>-0.115468</td><td>-0.042349</td></tr> <tr><td>1.000000</td><td>0.909198</td><td>0.600007</td><td>0.443176</td><td>0.232770</td><td>0.147718</td></tr> <tr><td>1.000000</td><td>1.140533</td><td>1.111718</td><td>1.156170</td><td>1.129029</td><td>1.140767</td></tr> </table>							1.000000	-1.140533	1.111718	-1.156170	1.129029	-1.140767	1.000000	-0.909198	0.600007	-0.443176	0.232770	-0.147718	1.000000	-0.388384	-0.114344	0.060935	-0.115468	0.042349	1.000000	0.388384	-0.114344	-0.060935	-0.115468	-0.042349	1.000000	0.909198	0.600007	0.443176	0.232770	0.147718	1.000000	1.140533	1.111718	1.156170	1.129029	1.140767													
1.000000	-1.140533	1.111718	-1.156170	1.129029	-1.140767																																																			
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Table 6: Values of the matrices \mathbf{B} and \mathbf{B}^{-1} for the ApproxMinVo basis functions from order 1 to 6.

matrice	order	value																																																						
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.500000</td><td>0.500000</td></tr> <tr><td>-0.500000</td><td>0.500000</td></tr> </table>					0.500000	0.500000	-0.500000	0.500000																																														
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Table 7: Values of the matrices \mathbf{B} and \mathbf{B}^{-1} for the Recursive basis functions from order 1 to 6.

matrice	order	value																																																												
B	1	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0.500000</td><td>0.500000</td><td></td><td></td></tr> <tr><td>-0.500000</td><td>0.500000</td><td></td><td></td></tr> </table>				0.500000	0.500000			-0.500000	0.500000																																																			
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Table 8: Values of the matrices **B** and **B⁻¹** for the Recursive2 basis functions from order 1 to 6.

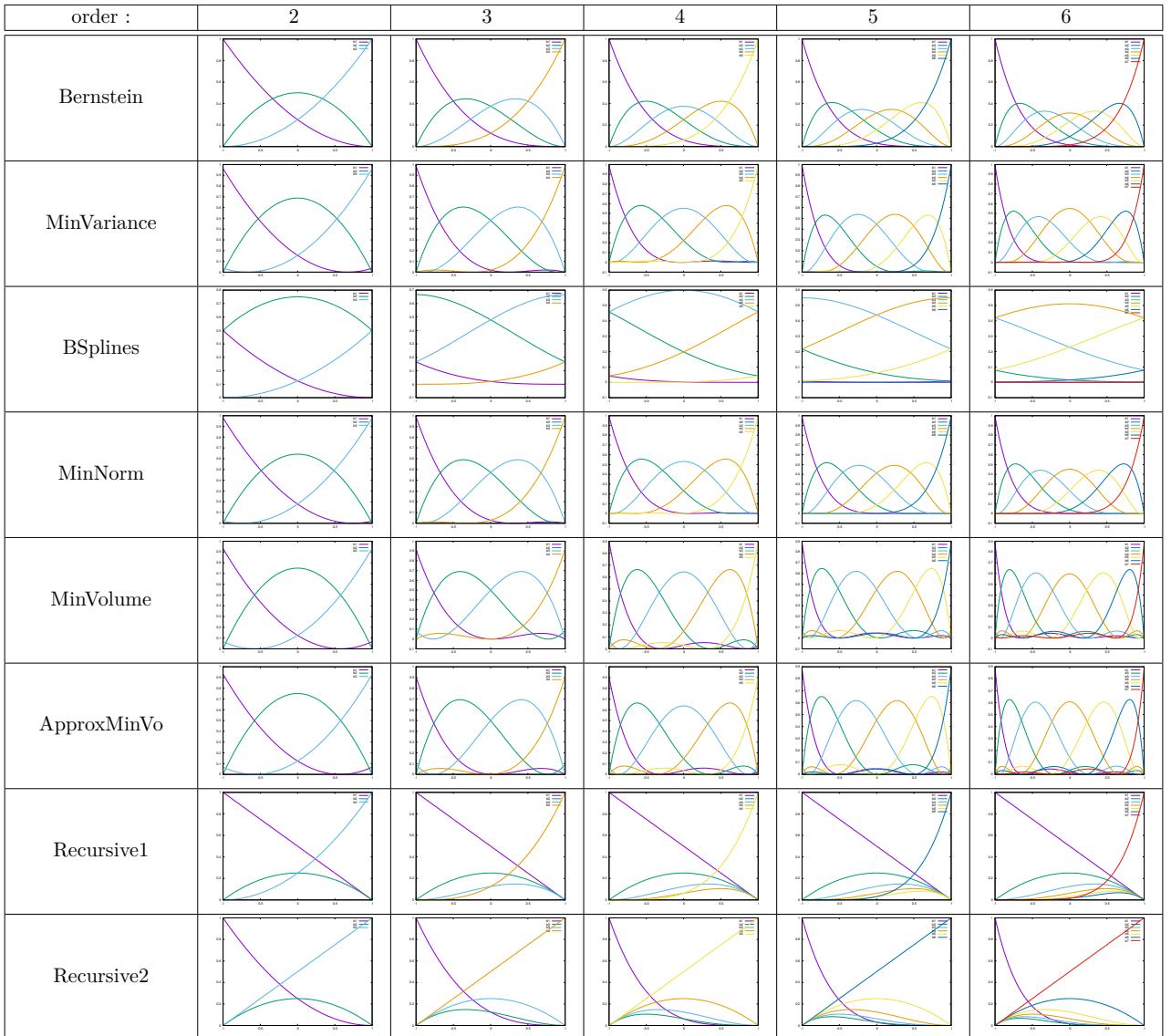


Table 9: Representation of the basis functions for the order 2 to 6

order	type	MinVolume $-det(\mathbf{B})^2$	MinNorm $\ \mathbf{B}^{-1}\ ^2$	MinVariance $\ \mathbf{B}^{-1} - \text{Average } (\mathbf{B}^{-1})\ ^2$
1	Bernstein	-0.25	4	2
	MinVariance	-0.25	4	2
	BSplines	-0.25	4	2
	MinNorm	-0.25	4	2
	MinVolume	-0.25	4	2
	ApproxMinVo	-0.25	4	2
	Recursive	-0.25	4	2
	Recursive2	-0.25	4	2
2	Bernstein	-0.0625	8	4.66667
	MinVariance	-0.101637	7.53553	3.73773
	BSplines	-0.00390625	30	18.6667
	MinNorm	-0.094799	7.48641	3.79204
	MinVolume	-0.105469	7.77778	3.85185
	ApproxMinVo	-0.105467	7.78522	3.85684
	Recursive	-0.015625	17	13.3333
	Recursive2	-0.015625	17	13.3333
3	Bernstein	-0.0197754	12.4444	8
	MinVariance	-0.0776098	10.9429	5.99574
	BSplines	-1.69542e-06	609.778	552
	MinNorm	-0.0703759	10.9231	6.01885
	MinVolume	-0.110146	12.1142	6.91991
	ApproxMinVo	-0.110036	12.1925	6.98117
	Recursive	-0.000244141	96	90
	Recursive2	-0.000244141	96	90
4	Bernstein	-0.00878906	17.1111	11.3556
	MinVariance	-0.138639	14.5243	7.75466
	BSplines	-1.14978e-11	26930.6	19580.8
	MinNorm	-0.101192	14.449	7.84653
	MinVolume	-0.322429	16.826	9.49568
	ApproxMinVo	-0.321755	16.8275	9.52516
	Recursive	-9.53674e-07	665	656
	Recursive2	-9.53674e-07	665	656
5	Bernstein	-0.00582077	21.92	15.0133
	MinVariance	-0.477859	18.1917	10.1726
	BSplines	-7.79745e-19	2.06027e+06	1.98912e+06
	MinNorm	-0.255511	18.0599	10.3167
	MinVolume	-2.88564	22.0832	13.3504
	ApproxMinVo	-2.86456	22.1827	13.446
	Recursive	-9.31323e-10	5076	5063.33
	Recursive2	-9.31323e-10	5076	5063.33
6	Bernstein	-0.00596719	26.8444	18.6438
	MinVariance	-3.65267	22.0119	12.2725
	BSplines	-3.67221e-28	2.40738e+08	1.87088e+08
	MinNorm	-1.19714	21.7376	12.5152
	MinVolume	-82.8592	27.6542	16.6707
	ApproxMinVo	-82.3749	27.5176	16.5483
	Recursive	-2.27374e-13	40537	40520
	Recursive2	-2.27374e-13	40537	40520

Table 10: Values of the different criteria from the basis function from order 1 to 6.

problem	center of the target	shape of the target	criteria
1	$\{0.2; 1.7\}$	square	$\sum_i q_i^2$
2	$\{0.4; 1.4\}$	square	$\sum_i q_i^2$
3	$\{0.6; 1.1\}$	square	$\sum_i q_i^2$
4	$\{0.2; 1.7\}$	circle	$\sum_i q_i^2$
5	$\{0.4; 1.4\}$	circle	$\sum_i q_i^2$
6	$\{0.6; 1.1\}$	circle	$\sum_i q_i^2$
7	$\{0.2; 1.7\}$	ring	$\sum_i q_i^2$
8	$\{0.4; 1.4\}$	ring	$\sum_i q_i^2$
9	$\{0.6; 1.1\}$	ring	$\sum_i q_i^2$
11	$\{0.2; 1.7\}$	square	$\sum_i \Gamma_i^2$
12	$\{0.4; 1.4\}$	square	$\sum_i \Gamma_i^2$
13	$\{0.6; 1.1\}$	square	$\sum_i \Gamma_i^2$
14	$\{0.2; 1.7\}$	circle	$\sum_i \Gamma_i^2$
15	$\{0.4; 1.4\}$	circle	$\sum_i \Gamma_i^2$
16	$\{0.6; 1.1\}$	circle	$\sum_i \Gamma_i^2$
17	$\{0.2; 1.7\}$	ring	$\sum_i \Gamma_i^2$
18	$\{0.4; 1.4\}$	ring	$\sum_i \Gamma_i^2$
19	$\{0.6; 1.1\}$	ring	$\sum_i \Gamma_i^2$

Table 11: Problem list and their specificities.

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	28.85e-6	22.30e-3	22.33e-3	0.022	3367	6.623e-6	955.68e-3	100.0	100.0	100.0
		Bernstein	706.9e-3	5.474e-3	712.4e-3	0.712	991	5.524e-6	951.92e-3	24.55	3190.4	29.43
		MinVariance	726.6e-3	5.426e-3	732.1e-3	0.732	1029	5.273e-6	952.00e-3	24.33	3278.6	30.56
		BSplines	729.4e-3	6.341e-3	735.8e-3	0.736	1535	4.131e-6	952.86e-3	28.43	3295.1	45.59
		MinNorm	737.9e-3	5.136e-3	743.0e-3	0.743	1017	5.050e-6	951.96e-3	23.03	3327.7	30.20
	3	MinVolume	723.2e-3	5.240e-3	728.4e-3	0.728	1047	5.005e-6	952.07e-3	23.50	3262.3	31.10
		ApproxMinVolume	728.5e-3	5.654e-3	734.1e-3	0.734	1049	5.390e-6	952.07e-3	25.35	3287.9	31.16
		Recursive	728.3e-3	5.229e-3	733.6e-3	0.734	1005	5.203e-6	951.92e-3	23.45	3285.3	29.85
		Recursive2	720.3e-3	4.852e-3	725.2e-3	0.725	1007	4.818e-6	951.92e-3	21.76	3247.9	29.91
		Interval	28.85e-6	4.499	4.499	4.499	703327	6.397e-6	656.18e-3	100.0	100.0	100.0
0.01	4	Bernstein	1.218	568.2e-3	1.786	1.786	116043	4.897e-6	653.31e-3	12.63	39.71	16.50
		MinVariance	1.307	604.3e-3	1.912	1.912	124251	4.863e-6	653.39e-3	13.43	42.49	17.67
		BSplines	1.224	1.033	2.257	2.257	238083	4.337e-6	654.29e-3	22.95	50.17	33.85
		MinNorm	1.370	609.4e-3	1.980	1.980	120347	5.064e-6	653.35e-3	13.55	44.00	17.11
		MinVolume	1.272	598.1e-3	1.870	1.870	132195	4.524e-6	653.46e-3	13.29	41.56	18.80
	5	ApproxMinVolume	1.286	644.7e-3	1.930	1.930	132393	4.869e-6	653.46e-3	14.33	42.91	18.82
		Recursive	1.217	559.5e-3	1.776	1.776	116609	4.798e-6	653.31e-3	12.44	39.49	16.58
		Recursive2	1.258	579.5e-3	1.838	1.838	116689	4.966e-6	653.31e-3	12.88	40.85	16.59
		Interval	24.08e-6	845.2	845.2	14.05	98257105	8.602e-6	546.04e-3	100.0	100.0	100.0
		Bernstein	3.932	114.7	118.6	01:58	9779187	11.73e-6	543.02e-3	13.57	14.04	9.953
0.01	3	MinVariance	4.808	130.2	135.0	02:15	10554147	12.34e-6	543.10e-3	15.41	15.98	10.74
		BSplines	3.878	235.0	238.9	03:58	22194981	10.59e-6	544.03e-3	27.80	28.26	22.59
		MinNorm	4.704	132.8	137.5	02:17	10195429	13.03e-6	543.06e-3	15.71	16.27	10.38
		MinVolume	4.165	133.8	138.0	02:17	11323765	11.82e-6	543.17e-3	15.83	16.33	11.52
		ApproxMinVolume	4.317	136.3	140.6	02:20	11343677	12.02e-6	543.18e-3	16.13	16.64	11.54
	4	Recursive	3.911	130.0	134.0	02:13	9800513	13.27e-6	543.02e-3	15.39	15.85	9.974
		Recursive2	3.887	114.6	118.5	01:58	9803491	11.69e-6	543.02e-3	13.56	14.02	9.977
		Interval	31.00e-6	173650	173650	2:00:14:10	18810829203	9.231e-6	463.96e-3	100.0	100.0	100.0
		Bernstein	57.31	51490	51547	14:19:07	1682985771	30.59e-6	461.15e-3	29.65	29.68	8.947
		MinVariance	60.87	57862	57923	16:05:23	1817885635	31.83e-6	461.22e-3	33.32	33.36	9.664
0.01	5	BSplines	57.88	110975	110975	1:06:49:35	4035420446	27.50e-6	462.14e-3	63.91	63.91	21.45
		MinNorm	59.77	55678	55737	15:28:57	1755309023	31.72e-6	461.19e-3	32.06	32.10	9.331
		MinVolume	58.58	60358	60417	16:46:57	1953182331	30.90e-6	461.30e-3	34.76	34.79	10.38
		ApproxMinVolume	59.84	60693	60753	16:52:33	1956747259	31.02e-6	461.30e-3	34.95	34.99	10.40
		Recursive	58.09	51883	51941	14:25:41	1685327733	30.79e-6	461.15e-3	29.88	29.91	8.959
	6	Recursive2	57.64	52007	52065	14:27:45	1686154457	30.84e-6	461.15e-3	29.95	29.98	8.964
		Interval	30.04e-6	9.402e-3	9.432e-3	0.009	1001	9.392e-6	1.1075	100.0	100.0	100.0
		Bernstein	998.4e-3	7.095e-3	1.005	1.005	549	12.92e-6	1.0801	75.46	10660.5	54.85
		MinVariance	998.2e-3	9.334e-3	1.008	1.008	557	16.76e-6	1.0808	99.28	10682.1	55.64
		BSplines	998.3e-3	10.52e-3	1.009	1.009	709	14.84e-6	1.0884	111.9	10695.6	70.83
0.01	2	MinNorm	997.4e-3	4.675e-3	1.002	1.002	551	8.484e-6	1.0804	49.72	10624.2	55.04
		MinVolume	997.8e-3	5.835e-3	1.004	1.004	569	10.25e-6	1.0814	62.06	10641.5	56.84
		ApproxMinVolume	998.1e-3	8.696e-3	1.007	1.007	569	15.28e-6	1.0814	92.49	10674.4	56.84
		Recursive	981.0e-3	5.225e-3	986.3e-3	0.986	553	9.448e-6	1.0801	55.57	10456.8	55.24
		Recursive2	997.7e-3	4.313e-3	1.002	1.002	553	7.799e-6	1.0801	45.87	10623.7	55.24
	3	Interval	30.04e-6	730.5e-3	730.5e-3	0.731	103227	7.077e-6	708.82e-3	100.0	100.0	100.0
		Bernstein	1.203	130.8e-3	1.334	1.334	24313	5.381e-6	684.89e-3	17.91	182.6	23.55
		MinVariance	1.352	136.6e-3	1.488	1.488	25717	5.310e-6	685.53e-3	18.70	203.7	24.91
		BSplines	1.205	204.7e-3	1.410	1.410	43997	4.652e-6	692.89e-3	28.02	193.0	42.62
		MinNorm	1.330	142.2e-3	1.472	1.472	25099	5.666e-6	685.24e-3	19.47	201.5	24.31
0.01	4	MinVolume	1.264	151.3e-3	1.415	1.415	27047	5.595e-6	686.12e-3	20.72	193.7	26.20
		ApproxMinVolume	1.258	152.3e-3	1.411	1.411	27093	5.623e-6	686.14e-3	20.85	193.1	26.25
		Recursive	1.278	137.9e-3	1.416	1.416	24743	5.572e-6	684.89e-3	18.87	193.8	23.97
		Recursive2	1.264	142.6e-3	1.406	1.406	24791	5.751e-6	684.89e-3	19.52	192.5	24.02
		Interval	22.17e-6	58.27	58.27	58.269	7499637	7.770e-6	600.02e-3	100.0	100.0	100.0
	5	Bernstein	3.931	12.21	16.14	16.14	970109	12.59e-6	574.62e-3	20.96	27.71	12.94
		MinVariance	4.914	14.06	18.98	18.976	1041705	13.50e-6	575.28e-3	24.13	32.57	13.89
		BSplines	3.873	23.72	27.59	27.589	2089791	11.35e-6	582.96e-3	40.70	47.35	27.87
		MinNorm	4.756	13.38	18.13	18.135	1008885	13.26e-6	574.98e-3	22.96	31.12	13.45
		MinVolume	4.194	13.95	18.15	18.148	1113227	12.53e-6	575.90e-3	23.95	31.14	14.84
0.01	6	ApproxMinVolume	4.438	14.08	18.51	18.514	1115167	12.62e-6	575.91e-3	24.16	31.77	14.87
		Recursive	4.064	12.07	16.14	16.136	985009	12.26e-6	574.62e-3	20.72	27.69	13.13
		Recursive2	3.963	12.33	16.29	16.290	985651	12.51e-6	574.62e-3	21.16	27.96	13.14
		Interval	26.94e-6	5051	5051	01:24:11	580056931	8.709e-6	518.93e-3	100.0	100.0	100.0
		Bernstein	57.09	2720	2777	46:17	86138425	31.58e-6	494.87e-3	53.85	54.98	14.85
	7	MinVariance	60.34	3072	3132	52:12	9193425	33.42e-6	495.51e-3	60.82	62.02	15.85
		BSplines	57.63	5523	5580	01:33:00	180189305	30.65e-6	503.11e-3	109.3	110.5	31.06
		MinNorm	60.35	2963	3023	50:23	89237027	33.20e-6	495.22e-3	58.65	59.85	15.38
		MinVolume	58.38	3314	3372	56:12	97738955	33.91e-6	496.13e-3	65.61	66.77	16.85
		ApproxMinVolume	59.59	3178	3238	53:58	97890755	32.47e-6	496.14e-3	62.92	64.10	16.88
	8	Recursive	57.54	2823	2881	48:01	86945127	32.48e-6	494.87e-3	55.90	57.04	14.99
		Recursive2	57.78	2830	2888	48:08	87044285	32.51e-6	494.87e-3	56.02	57.17	15.01

Table 12: Bisection of problem 2D with problem: 1, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	45.06e-6	7.891e-3	7.936e-3	0.008	857	9.208e-6	2.7090	100.0	100.0	100.0
		Bernstein	723.3e-3	4.526e-3	727.8e-3	0.728	451	10.04e-6	2.7057	57.36	9170.7	52.63
		MinVariance	747.6e-3	4.444e-3	752.0e-3	0.752	471	9.435e-6	2.7058	56.32	9476.2	54.96
		BSplines	719.7e-3	4.730e-3	724.5e-3	0.724	703	6.728e-6	2.7073	59.94	9129.1	82.03
		MinNorm	755.4e-3	4.881e-3	760.3e-3	0.760	459	10.63e-6	2.7057	61.85	9580.6	53.56
	3	MinVolume	753.2e-3	4.988e-3	758.2e-3	0.758	489	10.20e-6	2.7059	63.21	9553.6	57.06
		ApproxMinVolume	741.2e-3	4.047e-3	745.3e-3	0.745	489	8.276e-6	2.7059	51.29	9391.1	57.06
		Recursive	735.8e-3	4.295e-3	740.1e-3	0.740	451	9.523e-6	2.7057	54.43	9326.3	52.63
		Recursive2	735.4e-3	4.268e-3	739.7e-3	0.740	451	9.464e-6	2.7057	54.09	9320.5	52.63
		Interval	29.09e-6	2.089	2.089		302195	6.912e-6	2.4369	100.0	100.0	100.0
0.01	4	Bernstein	1.235	244.8e-3	1.480	1.480	44913	5.450e-6	2.4310	11.72	70.84	14.86
		MinVariance	1.343	251.6e-3	1.595	1.595	48259	5.213e-6	2.4312	12.04	76.36	15.97
		BSplines	1.235	468.0e-3	1.703	1.703	99953	4.682e-6	2.4329	22.40	81.51	33.08
		MinNorm	1.371	257.9e-3	1.629	1.629	46669	5.527e-6	2.4311	12.35	77.98	15.44
		MinVolume	1.324	277.6e-3	1.601	1.601	51647	5.376e-6	2.4313	13.29	76.66	17.09
	5	ApproxMinVolume	1.267	265.7e-3	1.533	1.533	51749	5.134e-6	2.4313	12.72	73.40	17.12
		Recursive	1.237	244.3e-3	1.481	1.481	45017	5.428e-6	2.4310	11.70	70.90	14.90
		Recursive2	1.233	248.8e-3	1.482	1.482	45173	5.507e-6	2.4310	11.91	70.93	14.95
		Interval	29.09e-6	672.1	672.1	11:12	83653481	8.034e-6	1.2775	100.0	100.0	100.0
		Bernstein	3.891	110.9	114.8	01:54	9140617	12.13e-6	1.2731	16.50	17.08	10.93
0.1	3	MinVariance	4.791	126.4	131.2	02:11	9887775	12.78e-6	1.2732	18.81	19.52	11.82
		BSplines	3.902	234.6	238.5	03:58	21844859	10.74e-6	1.2746	34.90	35.48	26.11
		MinNorm	4.663	123.4	128.0	02:08	9542241	12.93e-6	1.2731	18.35	19.05	11.41
		MinVolume	4.186	129.2	133.3	02:13	10629611	12.15e-6	1.2733	19.22	19.84	12.71
		ApproxMinVolume	4.334	131.2	135.5	02:15	10649137	12.32e-6	1.2733	19.52	20.16	12.73
	4	Recursive	3.961	110.1	114.0	01:54	9159043	12.02e-6	1.2731	16.38	16.97	10.95
		Recursive2	3.933	112.9	116.8	01:56	9155733	12.33e-6	1.2731	16.79	17.38	10.94
		Interval	27.00e-6	5449423	544923	6-07:22:03	54998575207	9.908e-6	1.0796	100.0	100.0	100.0
		Bernstein	57.47	126707	126707	1-11:11:47	4379742224	28.93e-6	1.0754	23.25	23.25	7.963
		MinVariance	60.76	143554	143554	1-15:52:34	477829866	30.04e-6	1.0755	26.34	26.34	8.688
0.1	5	BSplines	57.78	307706	307707	3-13:28:27	11931768794	25.79e-6	1.0770	56.47	56.47	21.69
		MinNorm	60.24	137930	137930	1-14:18:50	45928553204	30.03e-6	1.0755	25.31	25.31	8.351
		MinVolume	58.21	152631	152631	1-18:23:51	5182587620	29.45e-6	1.0757	28.01	28.01	9.423
		ApproxMinVolume	60.04	152228	152229	1-18:17:09	5193302588	29.31e-6	1.0757	27.94	27.94	9.443
		Recursive	57.99	129026	129027	1-11:50:27	4383611222	29.43e-6	1.0754	23.68	23.68	7.970
	2	Recursive2	57.81	129292	129292	1-11:54:52	4386161158	29.48e-6	1.0754	23.73	23.73	7.975
		Interval	36.95e-6	19.04e-3	19.08e-3	0.019	603	31.58e-6	2.7694	100.0	100.0	100.0
		Bernstein	1.008	4.885e-3	1.013	1.013	385	12.69e-6	2.7381	25.65	5306.5	63.85
		MinVariance	1.008	18.90e-3	1.027	1.027	389	48.60e-6	2.7392	99.26	5381.2	64.51
		BSplines	1.007	4.766e-3	1.012	1.012	509	9.363e-6	2.7517	25.03	5304.6	84.41
0.1	3	MinNorm	1.007	16.94e-3	1.024	1.024	389	43.56e-6	2.7387	88.96	5365.2	64.51
		MinVolume	1.007	17.52e-3	1.025	1.025	397	44.14e-6	2.7402	92.00	5370.7	65.84
		ApproxMinVolume	1.007	15.83e-3	1.023	1.023	397	39.88e-6	2.7402	83.14	5361.0	65.84
		Recursive	1.008	18.40e-3	1.026	1.026	385	47.79e-6	2.7381	96.61	5377.3	63.85
		Recursive2	667.8e-3	4.380e-3	672.2e-3	0.672	385	11.38e-6	2.7381	23.00	3522.9	63.85
	4	Interval	30.04e-6	549.1e-3	549.1e-3	0.549	82629	6.644e-6	2.5140	100.0	100.0	100.0
		Bernstein	1.173	119.2e-3	1.292	1.292	21145	5.637e-6	2.4634	21.71	235.3	25.59
		MinVariance	1.306	123.8e-3	1.429	1.429	22287	5.554e-6	2.4646	22.54	260.3	26.97
		BSplines	1.201	188.0e-3	1.389	1.389	37621	4.998e-6	2.4783	34.25	252.9	45.53
		MinNorm	1.357	128.2e-3	1.485	1.485	21751	5.893e-6	2.4641	23.35	270.5	26.32
0.1	5	MinVolume	1.316	136.4e-3	1.453	1.453	23517	5.801e-6	2.4657	24.85	264.5	28.46
		ApproxMinVolume	1.311	143.5e-3	1.454	1.454	23551	6.093e-6	2.4658	26.14	264.9	28.50
		Recursive	1.252	121.1e-3	1.374	1.374	21245	5.702e-6	2.4634	22.06	250.2	25.71
		Recursive2	1.236	125.2e-3	1.361	1.361	21381	5.857e-6	2.4634	22.81	247.9	25.88
		Interval	30.04e-6	54.89	54.89	54.890	6777589	8.099e-6	1.3554	100.0	100.0	100.0
	2	Bernstein	3.992	14.87	18.86	18.857	1160499	12.81e-6	1.3191	27.08	34.35	17.12
		MinVariance	4.906	16.79	21.70	21.697	1243777	13.50e-6	1.3201	30.59	39.53	18.35
		BSplines	4.003	29.11	33.11	33.114	2450441	11.88e-6	1.3315	53.04	60.33	36.16
		MinNorm	4.822	16.20	21.03	21.026	1205215	13.44e-6	1.3196	29.52	38.31	17.78
		MinVolume	4.252	16.91	21.17	21.166	1324903	12.77e-6	1.3210	30.81	38.56	19.55
0.1	3	ApproxMinVolume	4.483	17.09	21.57	21.573	1326975	12.88e-6	1.3211	31.14	39.30	19.58
		Recursive	4.067	14.72	18.78	18.783	1173425	12.54e-6	1.3191	26.81	34.22	17.31
		Recursive2	3.987	14.75	18.74	18.739	1169849	12.61e-6	1.3191	26.88	34.14	17.26
		Interval	24.80e-6	9826	9826	02:43:46	1087998677	9.031e-6	1.1612	100.0	100.0	100.0
		Bernstein	57.09	6345	6402	01:46:42	194269469	32.66e-6	1.1267	64.58	65.16	17.86
	4	MinVariance	60.35	6700	6760	01:52:40	207619475	32.27e-6	1.1277	68.19	68.80	19.08
		BSplines	57.29	11515	11572	03:12:52	405146443	28.42e-6	1.1391	117.2	117.8	37.24
		MinNorm	60.57	6694	6754	01:52:34	201431467	33.23e-6	1.1272	68.13	68.74	18.51
		MinVolume	58.83	6861	6920	01:55:20	220846803	31.07e-6	1.1286	69.83	70.43	20.30
		ApproxMinVolume	59.63	6863	6922	01:55:22	221191743	31.03e-6	1.1286	69.85	70.45	20.33
0.1	5	Recursive	58.51	6388	6446	01:47:26	195322565	32.71e-6	1.1267	65.01	65.61	17.95
		Recursive2	58.03	6076	6134	01:42:14	195595667	31.07e-6	1.1267	61.84	62.43	17.98

Table 13: Bissection of problem 2D with problem: 2, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	40.05e-6	2.936e-3	2.976e-3	0.003	59	49.76e-6	infeasible	100.0	100.0	100.0
		Bernstein	717.1e-3	3.223e-3	720.3e-3	0.720	41	78.61e-6	infeasible	109.8	24204.2	69.49
		MinVariance	732.1e-3	3.017e-3	735.2e-3	0.735	41	73.58e-6	infeasible	102.8	24703.8	69.49
		BSplines	723.2e-3	3.740e-3	727.0e-3	0.727	41	91.22e-6	infeasible	127.4	24427.8	69.49
		MinNorm	744.1e-3	3.214e-3	747.3e-3	0.747	41	78.39e-6	infeasible	109.5	25111.6	69.49
		MinVolume	742.6e-3	3.122e-3	745.7e-3	0.746	41	76.15e-6	infeasible	106.3	25058.3	69.49
		ApproxMinVolume	732.7e-3	3.145e-3	735.8e-3	0.736	41	76.71e-6	infeasible	107.1	24726.5	69.49
	3	Recursive	725.3e-3	3.010e-3	728.3e-3	0.728	41	73.42e-6	infeasible	102.5	24472.8	69.49
		Recursive2	727.3e-3	3.382e-3	730.7e-3	0.731	41	82.49e-6	infeasible	115.2	24552.2	69.49
		Interval	25.03e-6	512.5e-3	512.5e-3	0.513	74295	6.898e-6	3.9157	100.0	100.0	100.0
0.01	4	Bernstein	1.184	97.64e-3	1.282	1.282	18541	5.266e-6	3.9108	19.05	250.1	24.96
		MinVariance	1.384	113.3e-3	1.497	1.497	19747	5.735e-6	3.9110	22.10	292.1	26.58
		BSplines	1.241	211.7e-3	1.452	1.452	38723	5.468e-6	3.9131	41.31	283.4	52.12
		MinNorm	1.375	110.8e-3	1.486	1.486	19189	5.774e-6	3.9109	21.62	289.9	25.83
		MinVolume	1.278	117.3e-3	1.396	1.396	21011	5.584e-6	3.9111	22.89	272.3	28.28
		ApproxMinVolume	1.217	112.4e-3	1.329	1.329	21033	5.344e-6	3.9111	21.93	259.4	28.31
		Recursive	1.177	98.20e-3	1.275	1.275	18541	5.296e-6	3.9108	19.16	248.8	24.96
	5	Recursive2	1.105	98.07e-3	1.203	1.203	18611	5.269e-6	3.9108	19.13	234.6	25.05
		Interval	27.89e-6	783.3	783.3	13.03	96586019	8.110e-6	2.2271	100.0	100.0	100.0
		Bernstein	3.921	119.8	123.8	02:03	9223587	12.99e-6	2.2173	15.30	15.80	9.550
0.05	2	MinVariance	4.758	134.8	139.5	02:19	9979647	13.51e-6	2.2174	17.21	17.82	10.33
		BSplines	3.947	254.1	258.1	04:18	21887309	11.61e-6	2.2193	32.44	32.95	22.66
		MinNorm	4.647	130.8	135.5	02:15	9627957	13.59e-6	2.2174	16.70	17.29	9.968
		MinVolume	4.139	137.4	141.5	02:21	10737257	12.80e-6	2.2176	17.54	18.07	11.12
		ApproxMinVolume	4.360	140.2	144.6	02:24	10756905	13.04e-6	2.2176	17.90	18.46	11.14
		Recursive	3.948	118.5	122.4	02:02	9236405	12.83e-6	2.2173	15.12	15.63	9.563
		Recursive2	3.911	120.0	123.9	02:03	9233981	13.00e-6	2.2173	15.32	15.82	9.560
	3	Interval	23.13e-6	47226	47226	13:07:06	5048693363	9.354e-6	1.4911	100.0	100.0	100.0
		Bernstein	57.81	39298	39356	10:55:56	1108947741	35.44e-6	1.4862	83.21	83.34	21.97
		MinVariance	60.79	43141	43202	12:00:02	1184923479	36.41e-6	1.4864	91.35	91.48	23.47
0.1	4	BSplines	66.31	74744	74810	20:46:50	2353185399	31.76e-6	1.4881	158.3	158.4	46.61
		MinNorm	69.03	41340	41409	11:30:09	1149775885	35.96e-6	1.4863	87.54	87.68	22.77
		MinVolume	62.62	44406	44469	12:21:09	1260200473	35.24e-6	1.4865	94.03	94.16	24.96
		ApproxMinVolume	73.58	44958	45031	12:30:31	1262169197	35.62e-6	1.4865	95.20	95.35	25.00
		Recursive	71.40	41076	41147	11:25:47	1110759591	36.98e-6	1.4862	86.98	87.13	22.00
		Recursive2	70.65	38534	38605	10:43:25	1109214085	34.74e-6	1.4862	81.60	81.74	21.97
		Interval	26.94e-6	3.105e-3	3.132e-3	0.003	59	52.63e-6	infeasible	100.0	100.0	100.0
	5	Bernstein	715.4e-3	3.829e-3	719.2e-3	0.719	41	93.39e-6	infeasible	123.3	22965.1	69.49
		MinVariance	944.4e-3	2.939e-3	947.3e-3	0.947	41	71.68e-6	infeasible	94.66	30248.2	69.49
		BSplines	944.2e-3	4.258e-3	948.5e-3	0.948	41	103.9e-6	infeasible	137.1	30284.3	69.49
0.15	2	MinNorm	941.2e-3	2.811e-3	944.0e-3	0.944	41	68.56e-6	infeasible	90.53	30142.1	69.49
		MinVolume	944.2e-3	3.552e-3	947.8e-3	0.948	41	86.63e-6	infeasible	114.4	30261.5	69.49
		ApproxMinVolume	941.8e-3	2.734e-3	944.6e-3	0.945	41	66.69e-6	infeasible	88.06	30160.7	69.49
		Recursive	943.3e-3	2.642e-3	946.0e-3	0.946	41	64.44e-6	infeasible	85.09	30204.2	69.49
		Recursive2	943.0e-3	2.698e-3	945.7e-3	0.946	41	65.80e-6	infeasible	86.89	30197.1	69.49
		Interval	27.18e-6	151.5e-3	151.5e-3	0.152	21335	7.100e-6	3.9989	100.0	100.0	100.0
		Bernstein	1.241	38.74e-3	1.280	1.280	6171	6.278e-6	3.9588	25.58	844.7	28.92
0.2	3	MinVariance	1.365	40.34e-3	1.405	1.405	6463	6.242e-6	3.9602	26.63	927.5	30.29
		BSplines	1.233	59.76e-3	1.292	1.292	11131	5.369e-6	3.9774	39.45	853.0	52.17
		MinNorm	1.374	39.50e-3	1.413	1.413	6349	6.221e-6	3.9596	26.08	932.8	29.76
	4	MinVolume	1.310	42.41e-3	1.352	1.352	6833	6.207e-6	3.9616	28.00	892.5	32.03
		ApproxMinVolume	1.299	41.50e-3	1.340	1.340	6843	6.065e-6	3.9617	27.40	884.7	32.07
		Recursive	1.247	39.09e-3	1.286	1.286	6173	6.333e-6	3.9588	25.81	848.8	28.93
		Recursive2	1.239	38.85e-3	1.278	1.278	6201	6.264e-6	3.9588	25.64	843.2	29.06
		Interval	33.86e-6	141.6	141.6	02:21	17502691	8.091e-6	2.5375	100.0	100.0	100.0
		Bernstein	3.984	17.94	21.92	21.924	1335393	13.43e-6	2.3014	12.67	15.48	7.630
		MinVariance	4.861	20.23	25.09	25.092	1423285	14.21e-6	2.3026	14.29	17.72	8.132
0.25	5	BSplines	3.959	33.46	37.42	37.422	2748539	12.17e-6	2.3172	23.63	26.43	15.70
		MinNorm	4.719	19.88	24.60	24.600	1382493	14.38e-6	2.3021	14.04	17.37	7.899
		MinVolume	4.217	20.62	24.84	24.839	1509929	13.66e-6	2.3038	14.56	17.54	8.627
	4	ApproxMinVolume	4.421	20.78	25.20	25.202	1512139	13.74e-6	2.3039	14.68	17.80	8.639
		Recursive	4.049	18.28	22.33	22.327	1344243	13.60e-6	2.3014	12.91	15.77	7.680
		Recursive2	3.970	18.20	22.16	22.165	1342371	13.55e-6	2.3014	12.85	15.65	7.670
		Interval	30.04e-6	2097	2097	34.57	227373771	9.225e-6	1.5822	100.0	100.0	100.0
		Bernstein	57.59	1931	1988	33:08	52284461	36.94e-6	1.5430	92.08	94.83	22.99
		MinVariance	60.43	2020	2081	34:41	55748841	36.24e-6	1.5441	96.33	99.22	24.52
		BSplines	58.22	3463	3521	58:41	109297333	31.69e-6	1.5578	165.1	167.9	48.07
0.3	5	MinNorm	60.35	2023	2084	34:44	54136971	37.38e-6	1.5436	96.49	99.37	23.81
		MinVolume	57.57	2062	2119	35:19	59198995	34.84e-6	1.5452	98.32	101.1	26.04
		ApproxMinVolume	59.98	2184	2244	37:24	59289665	36.84e-6	1.5453	104.1	107.0	26.08
	4	Recursive	57.39	1923	1980	33:00	52908543	36.35e-6	1.5430	91.69	94.43	23.27
		Recursive2	57.68	1925	1983	33:03	52413113	36.74e-6	1.5430	91.80	94.55	23.05

Table 14: Bissection of problem 2D with problem: 3, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	16.64e-3	16.67e-3	0.017	2383	6.981e-6	1.0755	100.0	100.0	100.0
		Bernstein	764.4e-3	6.178e-3	770.6e-3	0.771	817	7.562e-6	1.0716	37.14	4623.5	34.28
		MinVariance	842.4e-3	5.851e-3	848.2e-3	0.848	877	6.672e-6	1.0717	35.17	5089.2	36.80
		BSplines	863.2e-3	15.61e-3	878.9e-3	0.879	2039	7.657e-6	1.0735	93.85	5273.0	85.56
		MinNorm	954.0e-3	7.705e-3	961.8e-3	0.962	853	9.033e-6	1.0717	46.31	5770.4	35.80
		MinVolume	920.7e-3	7.322e-3	928.0e-3	0.928	955	7.667e-6	1.0718	44.01	5567.9	40.08
	3	ApproxMinVolume	893.4e-3	6.409e-3	899.8e-3	0.900	957	6.697e-6	1.0718	38.52	5398.6	40.16
		Recursive	873.4e-3	7.287e-3	880.7e-3	0.881	1033	7.054e-6	1.0716	43.80	5283.9	43.35
		Recursive2	860.3e-3	7.059e-3	867.4e-3	0.867	1033	6.833e-6	1.0716	42.43	5204.0	43.35
		Interval	23.13e-6	4.811	4.811	4.811	711195	6.764e-6	741.67e-3	100.0	100.0	100.0
0.01	4	Bernstein	2.985	2.027	5.012	193081	10.50e-6	738.33e-3	42.14	104.2	27.15	
		MinVariance	4.365	2.589	6.954	223843	11.56e-6	738.62e-3	53.81	144.5	31.47	
		BSplines	3.130	8.459	11.59	11.589	775983	10.90e-6	742.24e-3	175.8	240.9	109.1
		MinNorm	4.151	2.365	6.516	208239	11.36e-6	738.47e-3	49.17	135.5	29.28	
		MinVolume	3.412	2.716	6.128	255471	10.63e-6	738.94e-3	56.46	127.4	35.92	
		ApproxMinVolume	3.387	2.728	6.116	256251	10.65e-6	738.94e-3	56.72	127.1	36.03	
	5	Recursive	3.437	2.278	5.716	209177	10.89e-6	738.33e-3	47.36	118.8	29.41	
		Recursive2	3.664	2.224	5.888	203103	10.95e-6	738.33e-3	46.23	122.4	28.56	
		Interval	29.09e-6	1060	1060	17:40	127570319	8.315e-6	621.32e-3	100.0	100.0	100.0
		Bernstein	3.980	372.9	376.9	06:16	21728921	17.16e-6	617.74e-3	35.15	35.53	17.03
0.1	2	MinVariance	5.156	449.7	454.8	07:34	26186913	17.17e-6	618.08e-3	42.39	42.88	20.53
		BSplines	3.946	2073	2077	34:37	123119939	16.84e-6	621.91e-3	195.5	96.51	
		MinNorm	5.077	405.0	410.1	06:50	24001845	16.87e-6	617.91e-3	38.18	38.66	18.81
		MinVolume	4.473	537.7	542.2	09:02	30954991	17.37e-6	618.38e-3	50.70	51.12	24.27
		ApproxMinVolume	4.623	523.6	528.2	08:48	31078695	16.85e-6	618.38e-3	49.36	49.80	24.36
		Recursive	4.062	396.9	400.9	06:40	23405821	16.96e-6	617.74e-3	37.42	37.80	18.35
	3	Recursive2	4.028	449.1	453.1	07:33	25972355	17.29e-6	617.74e-3	42.34	42.72	20.36
		Interval	27.00e-6	279920	279920	3:05:45:20	28828576484	9.710e-6	529.85e-3	100.0	100.0	100.0
		Bernstein	59.44	184551	184551	2-03:15:51	4449324341	41.48e-6	526.69e-3	65.93	65.93	15.43
		MinVariance	65.23	234787	234787	2-17:13:07	5621872305	41.76e-6	527.05e-3	83.88	83.88	19.50
0.1	4	BSplines	56.03	1525850	1525850	17:15:50:50	37268701884	40.94e-6	531.29e-3	545.1	545.1	129.3
		MinNorm	66.44	215741	215741	2-11:55:41	5073628293	42.52e-6	526.90e-3	77.07	77.07	17.60
		MinVolume	68.35	296081	296081	3-10:14:41	6915560218	42.81e-6	527.38e-3	105.8	105.8	23.99
		ApproxMinVolume	65.48	288926	288927	3-08:15:27	6949340844	41.58e-6	527.39e-3	103.2	103.2	24.11
		Recursive	60.67	197947	197947	2-06:59:07	4766507865	41.53e-6	526.69e-3	70.72	70.72	16.53
		Recursive2	61.72	220353	220353	2-13:12:33	5287820395	41.67e-6	526.69e-3	78.72	78.72	18.34
	5	Interval	34.09e-6	9.22e-3	9.256e-3	0.009	899	10.26e-6	1.1306	100.0	100.0	100.0
		Bernstein	1.066	4.494e-3	1.070	1.070	361	12.45e-6	1.0927	48.73	11560.2	40.16
		MinVariance	1.145	4.969e-3	1.150	1.150	385	12.91e-6	1.0933	53.88	12422.6	42.83
		BSplines	1.066	7.612e-3	1.073	1.073	913	8.337e-6	1.1115	82.54	11595.7	101.6
0.1	2	MinNorm	1.124	4.219e-3	1.128	1.128	375	11.25e-6	1.0930	45.75	12186.5	41.71
		MinVolume	1.108	4.839e-3	1.113	1.113	425	11.39e-6	1.0940	52.47	12027.7	47.27
		ApproxMinVolume	1.088	5.074e-3	1.093	1.093	425	11.94e-6	1.0940	55.02	11812.5	47.27
		Recursive	1.066	5.791e-3	1.071	1.071	559	10.36e-6	1.0927	62.79	11574.8	62.18
		Recursive2	1.106	7.776e-3	1.114	1.114	577	13.48e-6	1.0927	84.32	12036.7	64.18
		Interval	33.14e-6	762.0e-3	762.0e-3	0.762	106721	7.140e-6	794.69e-3	100.0	100.0	100.0
	3	Bernstein	2.911	342.0e-3	3.253	3.253	30803	11.10e-6	766.06e-3	44.89	426.9	28.86
		MinVariance	4.297	434.5e-3	4.731	4.731	35577	12.21e-6	768.90e-3	57.03	620.9	33.34
		BSplines	3.210	1.439	4.650	4.650	130221	11.05e-6	797.06e-3	188.9	610.2	122.0
		MinNorm	4.267	393.1e-3	4.660	4.660	33935	11.77e-6	768.21e-3	51.60	611.6	31.29
0.1	4	MinVolume	3.654	487.5e-3	4.141	4.141	41623	11.71e-6	770.54e-3	63.98	543.4	39.00
		ApproxMinVolume	3.627	497.5e-3	4.125	4.125	41803	11.90e-6	770.68e-3	65.29	541.3	39.17
		Recursive	3.513	499.7e-3	4.013	4.013	42361	11.80e-6	766.06e-3	65.58	526.7	39.69
		Recursive2	3.741	500.4e-3	4.241	4.241	39681	12.61e-6	766.06e-3	65.67	556.6	37.18
		Interval	22.17e-6	67.97	67.97	01:07	7790067	8.725e-6	678.03e-3	100.0	100.0	100.0
		Bernstein	3.987	23.07	27.06	27.058	1369727	16.84e-6	647.64e-3	33.95	39.81	17.58
	5	MinVariance	5.235	27.03	32.27	32.269	1577077	17.14e-6	649.64e-3	39.78	47.48	20.24
		BSplines	4.078	152.7	156.8	02:36	9051187	16.87e-6	678.47e-3	224.7	230.7	116.2
		MinNorm	5.032	24.99	30.02	30.019	1448057	17.26e-6	648.77e-3	36.76	44.17	18.59
		MinVolume	4.597	33.28	37.88	37.876	1913031	17.40e-6	651.67e-3	48.96	55.73	24.56
0.1	2	ApproxMinVolume	4.735	33.69	38.43	38.428	1921565	17.53e-6	651.69e-3	49.57	56.54	24.67
		Recursive	4.172	43.24	47.41	47.408	2509615	17.23e-6	647.64e-3	63.62	69.75	32.22
		Recursive2	4.083	59.19	63.27	01:03	3398545	17.42e-6	647.64e-3	87.08	93.09	43.63
		Interval	24.08e-6	6106	6106	01:41:46	653254743	9.348e-6	587.12e-3	100.0	100.0	100.0
		Bernstein	54.65	4499	4553	01:15:53	106824699	42.12e-6	559.75e-3	73.68	74.57	16.35
		MinVariance	60.05	5599	5660	01:34:20	131642925	42.54e-6	562.22e-3	91.71	92.69	20.15
	3	BSplines	55.14	49263	49319	13:41:59	1145719257	43.00e-6	595.66e-3	806.8	807.7	175.4
		MinNorm	59.58	4969	5029	01:23:49	116862765	42.53e-6	651.16e-3	81.38	82.36	17.89
		MinVolume	57.21	7161	7218	02:00:18	167099243	42.86e-6	564.56e-3	117.3	118.2	25.58
		ApproxMinVolume	57.63	7515	7573	02:06:13	168217769	44.68e-6	564.77e-3	123.1	124.0	25.75
	4	Recursive	55.21	8476	8531	02:22:11	203131201	41.73e-6	559.75e-3	138.8	139.7	31.10
		Recursive2	55.43	12781	12837	03:33:57	301335357	42.42e-6	559.75e-3	209.3	210.2	46.13

Table 15: Bisection of problem 2D with problem: 4, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	26.94e-6	18.85e-3	18.88e-3	0.019	2661	7.085e-6	2.7566	100.0	100.0	100.0
		Bernstein	847.4e-3	7.550e-3	854.9e-3	0.855	1229	6.143e-6	2.7533	40.04	4528.1	46.19
		MinVariance	948.1e-3	8.439e-3	956.6e-3	0.957	1351	6.247e-6	2.7535	44.76	5066.3	50.77
		BSplines	863.5e-3	15.00e-3	878.6e-3	0.879	3251	4.614e-6	2.7564	79.55	4653.1	122.2
		MinNorm	925.9e-3	8.227e-3	934.2e-3	0.934	1295	6.353e-6	2.7534	43.64	4947.6	48.67
		MinVolume	907.5e-3	9.963e-3	917.4e-3	0.917	1851	5.382e-6	2.7536	52.84	4859.0	69.56
	3	ApproxMinVolume	900.4e-3	9.286e-3	909.7e-3	0.910	1857	5.001e-6	2.7536	49.25	4817.9	69.79
		Recursive	857.2e-3	8.117e-3	865.3e-3	0.865	1377	5.895e-6	2.7533	43.05	4583.1	51.75
		Recursive2	858.7e-3	8.092e-3	866.8e-3	0.867	1351	5.990e-6	2.7533	42.92	4590.8	50.77
		Interval	27.89e-6	3.576	3.576	3.576	493957	7.240e-6	2.4706	100.0	100.0	100.0
0.01	4	Bernstein	3.025	1.149	4.174	4.174	115307	9.961e-6	2.4646	32.12	116.7	23.34
		MinVariance	4.468	1.433	5.901	5.901	133685	10.72e-6	2.4649	40.07	165.0	27.06
		BSplines	3.221	4.467	7.688	7.688	439985	10.15e-6	2.4685	124.9	215.0	89.07
		MinNorm	4.232	1.339	5.570	5.570	125473	10.67e-6	2.4647	37.43	155.8	25.40
		MinVolume	3.620	1.543	5.163	5.163	151441	10.19e-6	2.4652	43.15	144.4	30.66
		ApproxMinVolume	3.601	1.571	5.172	5.172	153139	10.26e-6	2.4652	43.92	144.6	31.00
	5	Recursive	3.498	1.276	4.773	4.773	123205	10.35e-6	2.4646	35.67	133.5	24.94
		Recursive2	3.725	1.310	5.034	5.034	122811	10.66e-6	2.4646	36.62	140.8	24.86
		Interval	27.89e-6	1506	1506	25.06	189085251	7.968e-6	1.4003	100.0	100.0	100.0
		Bernstein	4.009	707.1	711.2	11:51	41367965	17.09e-6	1.3955	46.93	47.20	21.88
0.1	2	MinVariance	5.156	865.4	870.5	14:30	50285639	17.21e-6	1.3959	57.43	57.78	26.59
		BSplines	3.960	4073	4077	01:07:57	236383013	17.23e-6	1.4017	270.4	270.6	125.0
		MinNorm	5.080	797.4	802.5	13:22	46103895	17.30e-6	1.3957	52.92	53.26	24.38
		MinVolume	4.497	1029	1033	17:13	59826583	17.21e-6	1.3964	68.32	68.62	31.64
		ApproxMinVolume	4.653	1053	1057	17:37	60059399	17.54e-6	1.3964	69.90	70.21	31.76
		Recursive	4.082	717.4	721.5	12:01	42155919	17.02e-6	1.3955	47.62	47.89	22.29
	3	Recursive2	4.030	791.0	795.0	13:15	45781889	17.28e-6	1.3955	52.50	52.77	24.21
		Interval	26.00e-6	666585	666585	7-17:09:45	68829667707	9.685e-6	1.1860	100.0	100.0	100.0
		Bernstein	60.23	542708	542708	6-06:45:08	13295526250	40.82e-6	1.1815	81.42	81.42	19.32
		MinVariance	71.97	691783	691783	8-00:09:43	16640937217	41.57e-6	1.1821	103.8	103.8	24.18
0.01	4	BSplines	64.29	4257390	4257390	49-06:36:30	104557258199	40.72e-6	1.1886	638.7	638.7	151.9
		MinNorm	71.34	626854	626854	7-06:07:34	15059663173	41.62e-6	1.1818	94.04	94.04	21.88
		MinVolume	65.11	842860	842860	9-18:07:40	20385478051	41.35e-6	1.1826	126.4	126.4	29.62
		ApproxMinVolume	65.09	847141	847141	9-19:19:01	20481565927	41.36e-6	1.1826	127.1	127.1	29.76
		Recursive	62.05	553289	553290	6-09:41:30	13624167152	40.61e-6	1.1815	83.00	83.00	19.79
		Recursive2	59.29	611016	611016	7-01:43:36	14983085410	40.78e-6	1.1815	91.66	91.66	21.77
	5	Interval	31.95e-6	6.617e-3	6.649e-3	0.007	661	10.01e-6	2.8082	100.0	100.0	100.0
		Bernstein	1.086	5.092e-3	1.091	1.091	405	12.57e-6	2.7809	76.95	16414.9	61.27
		MinVariance	1.175	4.338e-3	1.180	1.180	425	10.21e-6	2.7820	65.56	17741.4	64.30
		BSplines	1.100	7.231e-3	1.107	1.107	773	9.354e-6	2.8057	109.3	16645.9	116.9
0.01	2	MinNorm	1.156	4.606e-3	1.161	1.161	409	11.26e-6	2.7815	69.61	17457.3	61.88
		MinVolume	1.147	4.408e-3	1.151	1.151	469	9.399e-6	2.7830	66.62	17313.7	70.95
		ApproxMinVolume	1.142	5.727e-3	1.148	1.148	469	12.21e-6	2.7830	86.55	17264.6	70.95
		Recursive	1.097	5.886e-3	1.103	1.103	523	11.25e-6	2.7809	88.95	16581.7	79.12
		Recursive2	1.097	6.848e-3	1.104	1.104	513	13.35e-6	2.7809	103.5	16601.1	77.61
		Interval	29.09e-6	503.9e-3	503.9e-3	0.504	69249	7.277e-6	2.5447	100.0	100.0	100.0
0.01	3	Bernstein	2.992	215.7e-3	3.208	3.208	19403	11.12e-6	2.4963	42.80	636.5	28.02
		MinVariance	4.437	266.3e-3	4.703	4.703	22085	12.06e-6	2.4994	52.86	933.3	31.89
		BSplines	3.219	868.4e-3	4.087	4.087	76557	11.34e-6	2.5347	172.3	811.0	110.6
		MinNorm	4.267	248.5e-3	4.516	4.516	20789	11.95e-6	2.4977	49.31	896.0	30.02
		MinVolume	3.619	301.9e-3	3.921	3.921	25765	11.72e-6	2.5005	59.91	778.1	37.21
		ApproxMinVolume	3.588	296.0e-3	3.884	3.884	25839	11.45e-6	2.5005	58.73	770.7	37.31
0.01	4	Recursive	3.512	286.0e-3	3.798	3.798	25157	11.37e-6	2.4963	56.75	753.7	36.33
		Recursive2	3.714	316.1e-3	4.030	4.030	26221	12.06e-6	2.4963	62.73	799.7	37.86
		Interval	34.09e-6	95.20	95.20	01:35	10621131	8.963e-6	1.4800	100.0	100.0	100.0
		Bernstein	4.083	37.65	41.74	41.735	2137275	17.62e-6	1.4400	39.55	43.84	20.12
0.01	5	MinVariance	5.235	46.05	51.28	51.281	2563541	17.96e-6	1.4436	48.37	53.87	24.14
		BSplines	4.097	239.8	243.9	04:03	13596675	17.64e-6	1.4884	251.9	256.2	128.0
		MinNorm	5.067	40.68	45.75	45.750	2341173	17.38e-6	1.4422	42.73	48.06	22.04
		MinVolume	4.540	54.99	59.53	59.528	3113329	17.66e-6	1.4475	57.76	62.53	29.31
		ApproxMinVolume	4.727	55.92	60.65	01:00	3128003	17.88e-6	1.4475	58.74	63.70	29.45
		Recursive	4.117	47.86	51.97	51.974	2762643	17.32e-6	1.4400	50.27	54.59	26.01
0.01	5	Recursive2	4.150	72.52	76.67	01:16	4081563	17.77e-6	1.4400	76.18	80.54	38.43
		Interval	20.98e-6	12162	12162	03:22:42	1253315413	9.704e-6	1.2690	100.0	100.0	100.0
		Bernstein	54.84	10305	10360	02:52:40	240612025	42.83e-6	1.2322	84.73	85.18	19.20
		MinVariance	59.96	13151	13211	03:40:11	301916707	43.56e-6	1.2361	108.1	108.6	24.09
0.01	6	BSplines	53.41	93187	93240	1-01:54:00	2218459037	42.01e-6	1.2853	766.2	766.6	177.0
		MinNorm	59.29	11602	11661	03:14:21	271019129	42.81e-6	1.2342	95.40	95.88	21.62
		MinVolume	56.84	16282	16339	04:32:19	380170441	42.83e-6	1.2396	133.9	134.3	30.33
		ApproxMinVolume	57.40	16292	16349	04:32:29	381984097	42.65e-6	1.2397	134.0	134.4	30.48
		Recursive	54.73	13669	13724	03:48:44	319837953	42.74e-6	1.2322	112.4	112.8	25.52
		Recursive2	55.35	22787	22843	06:20:43	538867919	42.29e-6	1.2322	187.4	187.8	43.00

Table 16: Bisection of problem 2D with problem: 5, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	26.94e-6	3.154e-3	3.181e-3	0.003	89	35.44e-6	infeasible	100.0	100.0	100.0
		Bernstein	819.9e-3	3.422e-3	823.4e-3	0.823	65	52.65e-6	infeasible	108.5	25884.0	73.03
		MinVariance	898.9e-3	3.175e-3	902.1e-3	0.902	61	52.05e-6	infeasible	100.7	28358.5	68.54
		BSplines	823.9e-3	3.510e-3	827.4e-3	0.827	111	31.62e-6	infeasible	111.3	26011.4	124.7
		MinNorm	974.2e-3	2.921e-3	977.1e-3	0.977	59	49.51e-6	infeasible	92.61	30718.0	66.29
	3	MinVolume	955.8e-3	3.215e-3	959.0e-3	0.959	69	46.60e-6	infeasible	101.9	30147.5	77.53
		ApproxMinVolume	942.6e-3	2.806e-3	945.5e-3	0.945	69	40.67e-6	infeasible	88.97	29722.0	77.53
		Recursive	889.0e-3	3.743e-3	892.7e-3	0.893	91	41.13e-6	infeasible	118.7	28064.3	102.2
		Recursive2	880.0e-3	3.288e-3	883.3e-3	0.883	119	27.63e-6	infeasible	104.2	27767.1	133.7
		Interval	27.89e-6	1.662	1.662	229895	7.231e-6	4.0146	100.0	100.0	100.0	100.0
0.01	4	Bernstein	3.005	743.2e-3	3.748	3.748	67617	10.99e-6	4.0092	44.71	225.5	29.41
		MinVariance	4.455	912.8e-3	5.367	5.367	77275	11.81e-6	4.0097	54.91	322.9	33.61
		BSplines	3.210	2.946	6.156	6.156	273987	10.75e-6	4.0148	177.2	370.3	119.2
		MinNorm	4.235	817.5e-3	5.053	5.053	72515	11.27e-6	4.0093	49.18	304.0	31.54
		MinVolume	3.594	963.4e-3	4.558	4.558	88901	10.84e-6	4.0102	57.96	274.2	38.67
	5	ApproxMinVolume	3.582	966.8e-3	4.548	4.548	89173	10.84e-6	4.0102	58.16	273.6	38.79
		Recursive	3.497	761.8e-3	4.259	4.259	71131	10.71e-6	4.0092	45.83	256.2	30.94
		Recursive2	3.710	760.7e-3	4.471	4.471	70305	10.82e-6	4.0092	45.76	269.0	30.58
		Interval	20.98e-6	2088	2088	34:48	247582197	8.435e-6	2.3843	100.0	100.0	100.0
		Bernstein	3.986	446.5	450.4	07:30	25986905	17.18e-6	2.3649	21.38	21.57	10.50
0.1	3	MinVariance	5.106	527.3	532.4	08:52	31011033	17.00e-6	2.3654	25.25	25.50	12.53
		BSplines	3.969	2150	2154	35:54	132011683	16.29e-6	2.3716	103.0	103.2	53.32
		MinNorm	4.994	510.1	515.1	08:35	28753529	17.74e-6	2.3653	24.43	24.67	11.61
		MinVolume	4.452	613.7	618.2	10:18	36155657	16.97e-6	2.3659	29.39	29.60	14.60
		ApproxMinVolume	4.677	627.9	632.5	10:32	36282015	17.31e-6	2.3659	30.07	30.29	14.65
	4	Recursive	4.059	450.7	454.8	07:34	26604143	16.94e-6	2.3649	21.58	21.78	10.75
		Recursive2	4.003	469.3	473.3	07:53	28214921	16.63e-6	2.3649	22.47	22.66	11.40
		Interval	29.00e-6	437576	437576	5:01:32:56	44237030546	9.892e-6	1.6158	100.0	100.0	100.0
		Bernstein	60.27	489912	489912	5:16:05:12	11937538665	41.04e-6	1.6106	112.0	112.0	26.99
		MinVariance	65.25	622799	622799	7:04:59:59	14924760996	41.73e-6	1.6112	142.3	142.3	33.74
	5	BSplines	68.47	3654280	3654280	42:07:04:40	89111525282	41.01e-6	1.6186	835.1	835.1	201.4
		MinNorm	74.44	564243	564243	6:12:44:03	13505303842	41.78e-6	1.6109	128.9	128.9	30.53
		MinVolume	71.17	750205	750206	8:16:23:26	18201508396	41.22e-6	1.6118	171.4	171.4	41.15
		ApproxMinVolume	70.25	763912	763912	8:20:11:52	18301096962	41.74e-6	1.6118	174.6	174.6	41.37
		Recursive	63.53	497551	497551	5:18:12:31	11956885773	41.61e-6	1.6106	113.7	113.7	27.03
		Recursive2	64.05	546542	546542	6:07:49:02	1303385566	41.71e-6	1.6106	124.9	124.9	29.62
0.2	2	Interval	30.04e-6	3.302e-3	3.332e-3	0.003	89	37.10e-6	infeasible	100.0	100.0	100.0
		Bernstein	1.082	3.956e-3	1.086	1.086	65	60.86e-6	infeasible	119.8	32600.1	73.03
		MinVariance	1.165	3.361e-3	1.168	1.168	61	55.10e-6	infeasible	101.8	35061.3	68.54
		BSplines	1.105	4.584e-3	1.110	1.110	111	41.30e-6	infeasible	138.8	33313.4	124.7
		MinNorm	1.147	3.654e-3	1.150	1.150	59	61.93e-6	infeasible	110.7	34517.8	66.29
	3	MinVolume	1.165	3.434e-3	1.168	1.168	69	49.77e-6	infeasible	104.0	35062.8	77.53
		ApproxMinVolume	1.892	3.181e-3	1.895	1.895	69	46.10e-6	infeasible	96.33	56872.8	77.53
		Recursive	1.892	7.014e-3	1.899	1.899	91	77.08e-6	infeasible	212.4	56999.7	102.2
		Recursive2	1.892	8.812e-3	1.901	1.901	119	74.05e-6	infeasible	266.9	57055.2	133.7
		Interval	30.04e-6	191.8e-3	191.8e-3	0.192	26219	7.314e-6	4.0953	100.0	100.0	100.0
	4	Bernstein	3.024	103.0e-3	3.127	9415	10.94e-6	4.0529	53.71	1630.6	35.91	
		MinVariance	4.469	124.5e-3	4.593	10443	11.92e-6	4.0544	64.90	2394.9	39.83	
		BSplines	3.212	357.5e-3	3.570	3.570	32731	10.92e-6	4.0987	186.5	1861.2	124.8
		MinNorm	4.231	116.2e-3	4.347	4.347	9975	11.65e-6	4.0537	60.62	2266.8	38.04
		MinVolume	3.621	138.2e-3	3.759	3.759	12107	11.42e-6	4.0599	72.08	1960.1	46.18
	5	ApproxMinVolume	3.565	136.4e-3	3.701	3.701	12163	11.21e-6	4.0599	71.11	1929.7	46.39
		Recursive	3.501	137.1e-3	3.638	3.638	11729	11.69e-6	4.0529	71.51	1896.9	44.73
		Recursive2	3.741	136.3e-3	3.877	3.877	11957	11.40e-6	4.0529	71.08	2021.4	45.60
		Interval	30.04e-6	152.3	152.3	02:32	18472325	8.242e-6	2.6074	100.0	100.0	100.0
		Bernstein	4.047	31.96	36.01	36.006	1787729	17.88e-6	2.4438	20.99	23.65	9.678
	6	MinVariance	5.216	37.37	42.59	42.586	2092077	17.86e-6	2.4487	24.54	27.97	11.33
		BSplines	4.077	155.0	159.1	02:39	8743233	17.73e-6	2.4946	101.8	104.5	47.33
		MinNorm	5.104	35.58	40.69	40.686	1935049	18.38e-6	2.4463	23.37	26.72	10.48
		MinVolume	4.564	42.21	46.77	46.771	2416379	17.47e-6	2.4509	27.72	30.72	13.08
		ApproxMinVolume	4.707	43.08	47.79	47.791	2424401	17.77e-6	2.4510	28.30	31.39	13.12
	7	Recursive	4.126	38.99	43.12	43.121	2228407	17.50e-6	2.4438	25.61	28.32	12.06
		Recursive2	4.118	48.81	52.92	52.925	2756589	17.71e-6	2.4438	32.06	34.76	14.92
		Interval	26.94e-6	6081	6081	01:41:21	625471221	9.723e-6	1.7103	100.0	100.0	100.0
		Bernstein	56.13	7016	7072	01:57:52	165009075	42.52e-6	1.6674	115.4	116.3	26.38
		MinVariance	60.17	9070	9130	02:32:10	209533509	43.29e-6	1.6722	149.1	150.1	33.50
	8	BSplines	55.16	61689	61744	17:09:04	1459619547	42.26e-6	1.7288	1014.4	1015.3	233.4
		MinNorm	59.41	7995	8055	02:14:15	187988639	42.53e-6	1.6702	131.5	132.5	30.06
		MinVolume	57.28	11383	11440	03:10:40	261910657	43.46e-6	1.6761	187.2	188.1	41.87
		ApproxMinVolume	55.50	11065	11121	03:05:21	263267293	42.03e-6	1.6762	182.0	182.9	42.09
		Recursive	56.42	7498	7554	02:05:54	177834483	42.16e-6	1.6674	123.3	124.2	28.43
	9	Recursive2	55.16	15240	15295	04:14:55	352701941	43.21e-6	1.6674	250.6	251.5	56.39

Table 17: Bisection of problem 2D with problem: 6, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	31.95e-6	29.86e-3	29.89e-3	0.030	3901	7.654e-6	755.10e-3	100.0	100.0	100.0
		Bernstein	875.2e-3	6.288e-3	881.5e-3	0.882	839	7.495e-6	746.14e-3	21.06	2949.1	21.51
		MinVariance	981.9e-3	6.032e-3	987.9e-3	0.988	887	6.801e-6	750.68e-3	20.20	3305.0	22.74
		BSplines	909.9e-3	10.08e-3	920.0e-3	0.920	1861	5.419e-6	755.93e-3	33.77	3077.6	47.71
		MinNorm	976.3e-3	5.548e-3	981.9e-3	0.982	851	6.519e-6	750.65e-3	18.58	3284.7	21.81
	3	MinVolume	942.7e-3	6.550e-3	949.3e-3	0.949	979	6.690e-6	750.74e-3	21.94	3175.7	25.10
		ApproxMinVolume	928.7e-3	6.837e-3	935.5e-3	0.936	983	6.955e-6	750.74e-3	22.90	3129.6	25.20
		Recursive	892.3e-3	6.743e-3	899.1e-3	0.899	989	6.818e-6	746.14e-3	22.58	3007.8	25.35
		Recursive2	892.4e-3	6.848e-3	899.3e-3	0.899	1021	6.707e-6	746.14e-3	22.93	3008.5	26.17
		Interval	27.89e-6	6.309	6.309	6.309	881625	7.156e-6	531.59e-3	100.0	100.0	100.0
0.01	4	Bernstein	3.045	2.613	5.658	5.658	243299	10.74e-6	528.78e-3	41.43	89.69	27.60
		MinVariance	4.496	3.277	7.773	7.773	283695	11.55e-6	529.10e-3	51.94	123.2	32.18
		BSplines	3.242	10.60	13.84	13.838	939967	11.27e-6	532.31e-3	168.0	219.3	106.6
		MinNorm	4.278	3.022	7.300	7.300	265135	11.40e-6	528.95e-3	47.90	115.7	30.07
		MinVolume	3.646	3.585	7.231	7.231	322223	11.13e-6	529.32e-3	56.83	114.6	36.55
	5	ApproxMinVolume	3.607	3.635	7.242	7.242	323159	11.25e-6	529.34e-3	57.62	114.8	36.65
		Recursive	3.513	2.864	6.377	6.377	258469	11.08e-6	528.78e-3	45.40	101.1	29.32
		Recursive2	3.743	2.828	6.571	6.571	251577	11.24e-6	528.78e-3	44.82	104.2	28.54
		Interval	28.85e-6	1094	1094	18:14	131412411	8.331e-6	444.32e-3	100.0	100.0	100.0
		Bernstein	3.998	394.7	398.7	06:38	22173355	17.80e-6	441.41e-3	36.05	36.42	16.87
0.1	3	MinVariance	5.113	463.3	468.4	07:48	26813445	17.28e-6	441.73e-3	42.32	42.78	20.40
		BSplines	3.989	2223	2227	37:07	129187203	17.21e-6	445.18e-3	203.1	98.31	
		MinNorm	5.067	418.4	423.4	07:03	24612139	17.00e-6	441.58e-3	38.21	38.68	18.73
		MinVolume	4.496	550.6	555.1	09:15	31996365	17.21e-6	441.99e-3	50.29	50.70	24.35
		ApproxMinVolume	4.592	557.8	562.4	09:22	32131023	17.36e-6	441.99e-3	50.95	51.37	24.45
	4	Recursive	4.102	404.3	408.4	06:48	23361233	17.30e-6	441.41e-3	36.93	37.30	17.78
		Recursive2	4.044	438.4	442.4	07:22	25613173	17.12e-6	441.41e-3	40.04	40.41	19.49
		Interval	29.00e-6	288665	288665	3:08:11:05	29200962790	9.885e-6	378.44e-3	100.0	100.0	100.0
		Bernstein	55.05	189537	189537	2:04:38:57	4578807797	41.39e-6	375.83e-3	65.66	65.66	15.68
		MinVariance	60.33	245741	245741	2:20:15:41	5814608735	42.26e-6	376.15e-3	85.13	85.13	19.91
0.1	5	BSplines	55.12	1601720	1601720	18:12:55:20	39354884660	40.70e-6	379.89e-3	554.9	554.9	134.8
		MinNorm	59.13	219163	219163	2:12:52:43	5219983231	41.99e-6	376.00e-3	75.92	75.92	17.88
		MinVolume	56.79	296661	296661	3:10:24:21	7165627846	41.40e-6	376.45e-3	102.8	102.8	24.54
		ApproxMinVolume	57.26	286122	286122	3:07:28:42	7197590487	39.75e-6	376.46e-3	99.12	99.12	24.65
		Recursive	54.88	200772	200772	2:07:46:12	4788156051	41.93e-6	375.83e-3	69.55	69.55	16.40
	6	Recursive2	55.19	225061	225061	2:14:31:01	5238902215	42.96e-6	375.83e-3	77.97	77.97	17.94
		Interval	27.89e-6	9.792e-3	9.820e-3	0.010	1173	8.348e-6	846.26e-3	100.0	100.0	100.0
		Bernstein	1.892	8.748e-3	1.901	1.901	551	15.88e-6	813.57e-3	89.34	19354.0	46.97
		MinVariance	1.892	10.20e-3	1.902	1.902	583	17.50e-6	814.15e-3	104.2	19372.2	49.70
		BSplines	1.892	14.34e-3	1.907	1.907	1231	11.65e-6	829.81e-3	146.5	19417.2	104.9
0.1	6	MinNorm	1.891	6.668e-3	1.898	1.898	561	11.89e-6	813.89e-3	68.10	19329.7	47.83
		MinVolume	1.893	13.70e-3	1.906	1.906	645	21.24e-6	814.70e-3	139.9	19412.0	54.99
		ApproxMinVolume	1.893	14.43e-3	1.907	1.907	651	22.17e-6	814.71e-3	147.4	19422.3	55.50
		Recursive	1.893	17.23e-3	1.910	1.910	725	23.77e-6	813.57e-3	176.0	19453.7	61.81
		Recursive2	1.893	16.31e-3	1.909	1.909	735	22.20e-6	813.57e-3	166.6	19441.0	62.66
	7	Interval	24.80e-6	826.8e-3	826.8e-3	0.827	112547	7.346e-6	577.23e-3	100.0	100.0	100.0
		Bernstein	2.980	342.1e-3	3.322	3.322	32889	10.40e-6	553.92e-3	41.38	401.8	29.22
		MinVariance	4.418	435.2e-3	4.853	4.853	38459	11.32e-6	556.24e-3	52.63	586.9	34.17
		BSplines	3.186	1.463	4.649	4.649	140001	10.45e-6	581.31e-3	176.9	562.2	124.4
		MinNorm	4.204	394.7e-3	4.598	4.598	35501	11.12e-6	555.33e-3	47.73	556.2	31.54
0.1	8	MinVolume	3.583	482.3e-3	4.066	4.066	44633	10.81e-6	558.27e-3	58.33	491.7	39.66
		ApproxMinVolume	3.527	506.5e-3	4.033	4.033	44815	11.30e-6	558.29e-3	61.26	487.8	39.82
		Recursive	3.438	483.1e-3	3.921	3.921	43007	11.23e-6	553.92e-3	58.42	474.2	38.21
		Recursive2	3.649	454.0e-3	4.103	4.103	40095	11.32e-6	553.92e-3	54.91	496.2	35.63
		Interval	40.05e-6	66.38	66.38	01:06	7999761	8.298e-6	493.46e-3	100.0	100.0	100.0
	9	Bernstein	4.007	24.01	28.01	28.012	1395687	17.20e-6	468.22e-3	36.16	42.20	17.45
		MinVariance	5.299	30.00	35.30	35.297	1650545	18.17e-6	470.39e-3	45.19	53.17	20.63
		BSplines	4.100	157.3	161.4	02:41	9124755	17.24e-6	496.65e-3	237.0	243.1	114.1
		MinNorm	5.131	26.27	31.41	31.406	1502657	17.49e-6	469.51e-3	39.58	47.31	18.78
		MinVolume	4.592	35.12	39.72	39.716	1998391	17.58e-6	472.38e-3	52.91	59.83	24.98
0.1	10	ApproxMinVolume	4.708	34.67	39.38	39.383	2006989	17.28e-6	472.40e-3	52.24	59.33	25.09
		Recursive	4.186	38.16	42.35	42.347	2226589	17.14e-6	468.22e-3	57.49	63.80	27.83
		Recursive2	4.088	53.97	58.06	58.055	3055941	17.66e-6	468.22e-3	81.30	87.46	38.20
		Interval	27.89e-6	6163	6163	01:42:43	622244871	9.905e-6	427.47e-3	100.0	100.0	100.0
		Bernstein	55.35	4499	4555	01:15:55	105941253	42.48e-6	405.09e-3	73.01	73.91	17.03
	11	MinVariance	59.48	5579	5638	01:33:58	131851157	42.31e-6	407.22e-3	90.52	91.49	21.19
		BSplines	54.81	45141	45196	12:33:16	1089856989	41.42e-6	436.23e-3	732.4	733.3	175.1
		MinNorm	59.23	5021	5081	01:24:41	117150599	42.87e-6	405.95e-3	81.48	82.44	18.83
		MinVolume	56.83	7061	7118	01:58:38	166600157	42.39e-6	409.21e-3	114.6	115.5	26.77
		ApproxMinVolume	57.22	7116	7173	01:59:33	167540789	42.47e-6	409.22e-3	115.5	116.4	26.93
0.1	12	Recursive	53.52	7134	7187	01:59:47	168848047	42.25e-6	405.09e-3	115.8	116.6	27.14
		Recursive2	55.31	10895	10950	03:02:30	250882225	43.43e-6	405.09e-3	176.8	177.7	40.32

Table 18: Bisection of problem 2D with problem: 7, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	35.05e-6	21.99e-3	22.02e-3	0.022	2865	7.675e-6	2.4606	100.0	100.0	100.0
		Bernstein	878.1e-3	7.775e-3	885.9e-3	0.886	1363	5.704e-6	2.4563	35.36	4022.6	47.57
		MinVariance	951.0e-3	8.664e-3	959.7e-3	0.960	1469	5.898e-6	2.4564	39.40	4357.6	51.27
		BSplines	868.8e-3	13.89e-3	882.7e-3	0.883	2817	4.930e-6	2.4598	63.15	4008.0	98.32
		MinNorm	941.1e-3	8.407e-3	949.6e-3	0.950	1415	5.941e-6	2.4564	38.23	4311.5	49.39
		MinVolume	911.1e-3	8.794e-3	919.9e-3	0.920	1623	5.418e-6	2.4571	39.99	4176.7	56.65
	3	ApproxMinVolume	898.9e-3	8.709e-3	907.7e-3	0.908	1623	5.366e-6	2.4571	39.61	4121.2	56.65
		Recursive	873.7e-3	8.270e-3	881.9e-3	0.882	1467	5.637e-6	2.4563	37.61	4004.5	51.20
		Recursive2	878.8e-3	8.374e-3	887.2e-3	0.887	1479	5.662e-6	2.4563	38.08	4028.2	51.62
		Interval	32.90e-6	4.437	4.437		624303	7.108e-6	2.2083	100.0	100.0	100.0
0.01	4	Bernstein	3.050	1.389	4.439	4.439	135837	10.22e-6	2.2022	31.30	100.0	21.76
		MinVariance	4.476	1.774	6.251	6.251	158425	11.20e-6	2.2026	39.98	140.9	25.38
		BSplines	3.219	5.687	8.906	8.906	541987	10.49e-6	2.2060	128.2	200.7	86.81
		MinNorm	4.249	1.666	5.916	5.916	148295	11.24e-6	2.2024	37.55	133.3	23.75
		MinVolume	3.631	1.998	5.628	5.628	182409	10.95e-6	2.2028	45.02	126.8	29.22
	5	ApproxMinVolume	3.575	1.931	5.506	5.506	182933	10.55e-6	2.2028	43.51	124.1	29.30
		Recursive	3.496	1.525	5.020	5.020	142967	10.66e-6	2.2022	34.36	113.1	22.90
		Recursive2	3.721	1.557	5.278	5.278	142927	10.89e-6	2.2022	35.09	119.0	22.89
		Interval	29.09e-6	1724	1724	28.44	213360751	8.081e-6	1.2199	100.0	100.0	100.0
		Bernstein	3.937	831.2	835.1	13:55	50454883	16.47e-6	1.2155	48.21	48.44	23.65
0.1	3	MinVariance	5.187	1042	1047	17:27	61013369	17.09e-6	1.2160	60.47	60.77	28.60
		BSplines	4.039	4407	4411	01:13:31	277497315	15.88e-6	1.2216	255.6	255.9	130.1
		MinNorm	5.032	967.2	972.2	16:12	56014997	17.27e-6	1.2157	56.10	56.39	26.25
		MinVolume	4.518	1232	1236	20:36	72210907	17.07e-6	1.2164	71.47	71.74	33.84
		ApproxMinVolume	4.615	1246	1250	20:50	72439199	17.20e-6	1.2164	72.29	72.55	33.95
	4	Recursive	4.021	864.4	868.4	14:28	51056239	16.93e-6	1.2155	50.14	50.37	23.93
		Recursive2	4.075	928.0	932.1	15:32	54123815	17.15e-6	1.2155	53.83	54.06	25.37
		Interval	28.00e-6	756744	756744	8:18:12:24	77832279864	9.723e-6	1.0322	100.0	100.0	100.0
		Bernstein	54.95	603329	603330	6:23:35:30	15121569445	39.90e-6	1.0281	79.73	79.73	19.43
		MinVariance	59.79	776113	776113	8:23:35:13	19026489275	40.79e-6	1.0287	102.6	102.6	24.45
0.1	5	BSplines	54.96	4920300	4920300	56:22:45:00	121021741505	40.66e-6	1.0350	650.2	650.2	155.5
		MinNorm	59.30	711755	711755	8:05:42:35	17136869562	41.53e-6	1.0284	94.05	94.05	22.02
		MinVolume	57.06	959119	959119	11:02:25:19	23305249196	41.15e-6	1.0292	126.7	126.7	29.94
		ApproxMinVolume	57.50	976462	976463	11:07:14:23	23435498886	41.67e-6	1.0292	129.0	129.0	30.11
		Recursive	55.27	637856	637856	7:09:10:56	15332653901	41.60e-6	1.0281	84.29	84.29	19.70
	6	Recursive2	55.29	675568	675568	7:19:39:28	16431248947	41.11e-6	1.0281	89.27	89.27	21.11
		Interval	29.09e-6	7.103e-3	7.132e-3	0.007	685	10.37e-6	2.5169	100.0	100.0	100.0
		Bernstein	1.893	4.445e-3	1.897	1.897	337	13.19e-6	2.4865	62.58	26605.3	49.20
		MinVariance	1.889	14.20e-3	1.903	1.903	343	41.41e-6	2.4875	200.0	26687.7	50.07
		BSplines	1.892	13.75e-3	1.906	1.906	703	19.56e-6	2.5101	193.6	26725.0	102.6
0.1	6	MinNorm	2.166	6.107e-3	2.172	2.172	331	18.45e-6	2.4871	85.98	30453.0	48.32
		MinVolume	2.167	11.74e-3	2.179	2.179	383	30.66e-6	2.4885	165.3	30546.9	55.91
		ApproxMinVolume	2.167	7.666e-3	2.175	2.175	383	20.02e-6	2.4885	107.9	30494.0	55.91
		Recursive	2.167	6.831e-3	2.174	2.174	411	16.62e-6	2.4865	96.17	30476.1	60.00
		Recursive2	2.166	4.908e-3	2.171	2.171	449	10.93e-6	2.4865	69.10	30442.0	65.55
	7	Interval	26.94e-6	657.8e-3	657.8e-3	0.658	98143	6.703e-6	2.2797	100.0	100.0	100.0
		Bernstein	2.904	296.7e-3	3.201	3.201	26149	11.35e-6	2.2314	45.10	486.6	26.64
		MinVariance	4.409	357.4e-3	4.766	4.766	29819	11.98e-6	2.2340	54.33	724.5	30.38
		BSplines	3.196	1.159	4.356	4.356	100765	11.50e-6	2.2655	176.2	662.1	102.7
		MinNorm	4.253	343.8e-3	4.597	4.597	28013	12.27e-6	2.2334	52.27	698.8	28.54
0.1	8	MinVolume	3.645	388.9e-3	4.034	4.034	33971	11.45e-6	2.2350	59.11	613.2	34.61
		ApproxMinVolume	3.589	400.0e-3	3.989	3.989	34081	11.74e-6	2.2351	60.81	606.4	34.73
		Recursive	3.515	363.4e-3	3.878	3.878	31559	11.51e-6	2.2314	55.24	589.5	32.16
		Recursive2	3.744	379.0e-3	4.123	4.123	32767	11.57e-6	2.2314	57.62	626.7	33.39
		Interval	25.99e-6	93.35	93.35	01:33	11048427	8.449e-6	1.2952	100.0	100.0	100.0
	9	Bernstein	4.059	43.40	47.46	47.46	2422819	17.91e-6	1.2587	46.49	50.84	21.93
		MinVariance	5.260	53.05	58.31	58.310	2939667	18.05e-6	1.2628	56.83	62.46	26.61
		BSplines	4.070	243.0	247.0	04:07	13938915	17.43e-6	1.3068	260.3	264.6	126.2
		MinNorm	5.107	47.16	52.27	52.269	2691281	17.52e-6	1.2610	50.52	55.99	24.36
		MinVolume	4.548	62.00	66.55	01:06	3517435	17.63e-6	1.2665	66.41	71.28	31.84
0.1	10	ApproxMinVolume	4.775	63.06	67.84	01:07	3530765	17.86e-6	1.2665	67.55	72.67	31.96
		Recursive	4.120	50.63	54.75	54.752	2868969	17.65e-6	1.2587	54.24	58.65	25.97
		Recursive2	4.191	69.51	73.70	01:13	3940107	17.64e-6	1.2587	74.46	78.95	35.66
		Interval	20.03e-6	13449	13449	03:44:09	1366693269	9.841e-6	1.1113	100.0	100.0	100.0
		Bernstein	54.58	11390	11444	03:10:44	272881425	41.74e-6	1.0771	84.69	85.10	19.97
	11	MinVariance	60.09	14933	14993	04:09:53	345680561	43.20e-6	1.0810	111.0	111.5	25.29
		BSplines	55.34	103622	103677	1:04:47:57	2444878999	42.38e-6	1.1296	770.5	770.9	178.9
		MinNorm	59.25	13373	13432	03:43:52	309751173	43.17e-6	1.0789	99.44	99.88	22.66
		MinVolume	57.14	18399	18457	05:07:37	431370277	42.65e-6	1.0845	136.8	137.2	31.56
		ApproxMinVolume	56.87	17898	17954	04:59:14	433301867	41.31e-6	1.0845	133.1	133.5	31.70
0.1	12	Recursive	55.41	13724	13780	03:49:40	326904643	41.98e-6	1.0771	102.0	102.5	23.92
		Recursive2	55.55	21385	21441	05:57:21	504445255	42.39e-6	1.0771	159.0	159.4	36.91

Table 19: Bisection of problem 2D with problem: 8, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.04e-6	3.881e-3	3.911e-3	0.004	107	36.27e-6	infeasible	100.0	100.0	100.0
		Bernstein	846.8e-3	3.931e-3	850.7e-3	0.851	69	56.97e-6	infeasible	101.3	21752.4	64.49
		MinVariance	951.6e-3	3.598e-3	955.2e-3	0.955	63	57.11e-6	infeasible	92.71	24423.7	58.88
		BSplines	815.2e-3	3.912e-3	819.2e-3	0.819	113	34.62e-6	infeasible	100.8	20945.4	105.6
		MinNorm	876.2e-3	3.897e-3	880.1e-3	0.880	61	63.88e-6	infeasible	100.4	22502.8	57.01
	3	MinVolume	809.4e-3	3.393e-3	812.8e-3	0.813	69	49.17e-6	infeasible	87.42	20782.5	64.49
		ApproxMinVolume	810.7e-3	3.030e-3	813.8e-3	0.814	69	43.91e-6	infeasible	78.07	20807.3	64.49
		Recursive	874.4e-3	3.224e-3	877.7e-3	0.878	93	34.67e-6	infeasible	83.07	22440.7	86.92
		Recursive2	862.8e-3	3.524e-3	866.3e-3	0.866	123	28.65e-6	infeasible	90.80	22150.3	115.0
		Interval	25.99e-6	2.260	2.260	320711	7.046e-6	3.7270	100.0	100.0	100.0	100.0
0.01	4	Bernstein	2.996	1.118	4.114	106597	10.49e-6	3.7217	49.47	182.1	33.24	
		MinVariance	4.398	1.360	5.759	5.759	121437	11.20e-6	3.7221	60.20	254.8	37.86
		BSplines	3.173	3.647	6.819	6.819	350145	10.41e-6	3.7270	161.4	301.8	109.2
		MinNorm	4.188	1.303	5.491	5.491	114461	11.38e-6	3.7220	57.66	243.0	35.69
		MinVolume	3.574	1.456	5.030	5.030	135677	10.73e-6	3.7225	64.43	222.6	42.31
	5	ApproxMinVolume	3.580	1.424	5.003	5.003	136049	10.46e-6	3.7225	63.00	221.4	42.42
		Recursive	3.503	1.153	4.656	4.656	109979	10.48e-6	3.7217	51.02	206.0	34.29
		Recursive2	3.716	1.150	4.867	4.867	109183	10.53e-6	3.7217	50.89	215.4	34.04
		Interval	21.93e-6	2219	2219	3659	258043271	8.600e-6	2.1947	100.0	100.0	100.0
		Bernstein	4.003	573.8	577.8	09:37	33494421	17.13e-6	2.1783	25.86	26.04	12.98
0.1	2	MinVariance	5.150	710.2	715.4	11:55	39986051	17.76e-6	2.1787	32.00	32.24	15.50
		BSplines	3.984	2725	2729	45:29	167557199	16.26e-6	2.1849	122.8	123.0	64.93
		MinNorm	4.978	636.8	641.8	10:41	37060967	17.18e-6	2.1785	28.70	28.92	14.36
		MinVolume	4.483	789.2	793.6	13:13	46731837	16.89e-6	2.1793	35.56	35.76	18.11
		ApproxMinVolume	4.648	819.1	823.7	13:43	46906683	17.46e-6	2.1793	36.91	37.12	18.18
	3	Recursive	4.019	589.0	593.0	09:53	33952573	17.35e-6	2.1783	26.54	26.72	13.16
		Recursive2	4.011	598.8	602.8	10:02	35550901	16.84e-6	2.1783	26.98	27.16	13.78
		Interval	28.00e-6	446838	446838	5:04:07:18	46148673782	9.683e-6	1.4639	100.0	100.0	100.0
		Bernstein	54.88	520018	520018	6:00:26:58	12563231767	41.39e-6	1.4591	116.4	116.4	27.22
		MinVariance	60.26	665826	665826	7:16:57:06	15807794175	42.12e-6	1.4597	149.0	149.0	34.25
0.1	4	BSplines	55.54	4128640	4128640	47:18:50:40	100479468274	41.09e-6	1.4670	924.0	924.0	217.7
		MinNorm	59.51	593157	593157	6:20:45:57	14262155737	41.59e-6	1.4594	132.7	132.7	30.90
		MinVolume	57.34	802157	802157	9:06:49:17	19364907825	41.42e-6	1.4603	179.5	179.5	41.96
		ApproxMinVolume	57.53	812740	812740	9:09:45:40	19473261169	41.74e-6	1.4603	181.9	181.9	42.20
		Recursive	54.82	520266	520266	6:00:31:06	12581302301	41.35e-6	1.4591	116.4	116.4	27.26
	5	Recursive2	55.18	556135	556136	6:10:28:56	13433505549	41.40e-6	1.4591	124.5	124.5	29.11
		Interval	26.94e-6	111.2e-3	111.2e-3	0.111	107	1.039e-3	infeasible	100.0	100.0	100.0
		Bernstein	2.166	4.789e-3	2.171	2.171	69	69.40e-6	infeasible	4.308	1952.4	64.49
		MinVariance	2.086	3.739e-3	2.089	2.089	63	59.35e-6	infeasible	3.364	1879.2	58.88
		BSplines	2.167	8.552e-3	2.176	2.176	113	75.68e-6	infeasible	7.693	1957.0	105.6
0.1	2	MinNorm	2.167	12.75e-3	2.179	2.179	61	209.0e-6	infeasible	11.47	1960.1	57.01
		MinVolume	2.167	9.690e-3	2.177	2.177	69	140.4e-6	infeasible	8.717	1957.8	64.49
		ApproxMinVolume	2.152	11.40e-3	2.164	2.164	69	165.2e-6	infeasible	10.26	1946.0	64.49
		Recursive	2.152	9.382e-3	2.161	2.161	93	100.9e-6	infeasible	8.440	1944.0	86.92
		Recursive2	2.077	12.47e-3	2.090	2.090	123	101.4e-6	infeasible	11.22	1879.4	115.0
	3	Interval	28.85e-6	307.9e-3	307.9e-3	0.308	40963	7.516e-6	3.8013	100.0	100.0	100.0
		Bernstein	3.003	153.6e-3	3.156	3.156	13987	10.98e-6	3.7604	49.89	1025.2	34.15
		MinVariance	4.479	198.5e-3	4.677	4.677	15869	12.51e-6	3.7636	64.47	1519.2	38.74
		BSplines	3.213	534.8e-3	3.748	3.748	48657	10.99e-6	3.8029	173.7	1217.2	118.8
		MinNorm	4.249	189.9e-3	4.439	4.439	14961	12.69e-6	3.7612	61.67	1441.8	36.52
0.1	4	MinVolume	3.633	205.4e-3	3.838	3.838	18009	11.41e-6	3.7668	66.72	1246.6	43.96
		ApproxMinVolume	3.600	202.5e-3	3.802	3.802	18053	11.22e-6	3.7668	65.77	1234.9	44.07
		Recursive	3.502	185.9e-3	3.688	3.688	16495	11.27e-6	3.7604	60.40	1198.0	40.27
		Recursive2	3.720	189.2e-3	3.909	3.909	16503	11.46e-6	3.7604	61.46	1269.7	40.29
		Interval	25.03e-6	150.5	150.5	02:30	17689035	8.507e-6	2.3987	100.0	100.0	100.0
	5	Bernstein	4.091	36.03	40.13	40.126	2054341	17.54e-6	2.2545	23.95	26.66	11.61
		MinVariance	5.224	42.35	47.57	47.575	2415005	17.54e-6	2.2579	28.14	31.61	13.65
		BSplines	4.060	176.6	180.6	03:00	10142423	17.41e-6	2.3074	117.3	120.0	57.34
		MinNorm	4.914	39.54	44.46	44.456	2238933	17.66e-6	2.2569	26.28	29.54	12.66
		MinVolume	4.603	56.52	61.12	01:01	2829311	19.98e-6	2.2634	37.56	40.62	15.99
0.1	2	ApproxMinVolume	4.716	50.48	55.20	55.197	2838669	17.78e-6	2.2634	33.54	36.68	16.05
		Recursive	4.110	42.38	46.49	46.492	2418191	17.53e-6	2.2545	28.16	30.89	13.67
		Recursive2	4.111	51.67	55.78	55.781	2902143	17.80e-6	2.2545	34.33	37.07	16.41
		Interval	20.98e-6	7032	7032	01:57:12	708080401	9.931e-6	1.5549	100.0	100.0	100.0
		Bernstein	55.22	8640	8695	02:24:55	20024705	43.16e-6	1.5150	122.9	123.7	28.27
	3	MinVariance	60.16	11126	11186	03:06:26	254680529	43.69e-6	1.5198	158.2	159.1	35.97
		BSplines	54.90	72776	72831	20:13:51	1720598853	42.30e-6	1.5759	1034.9	1035.7	243.0
		MinNorm	59.29	9779	9838	02:43:58	228013011	42.89e-6	1.5175	139.1	139.9	32.20
		MinVolume	57.09	13670	13727	03:48:47	315310113	43.36e-6	1.5237	194.4	195.2	44.53
		ApproxMinVolume	57.34	13701	13759	03:49:19	317430217	43.16e-6	1.5239	194.8	195.7	44.83
0.1	4	Recursive	55.13	8979	9035	02:30:35	207894885	43.19e-6	1.5150	127.7	128.5	29.36
		Recursive2	54.98	14663	14718	04:05:18	345337759	42.46e-6	1.5150	208.5	209.3	48.77

Table 20: Bisection of problem 2D with problem: 9, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	37.19e-6	6.781e-3	6.818e-3	0.007	671	10.11e-6	80.714	100.0	100.0	100.0
		Bernstein	716.8e-3	4.455e-3	721.3e-3	0.721	583	7.642e-6	80.593	65.70	10578.7	86.89
		MinVariance	714.6e-3	4.524e-3	719.1e-3	0.719	583	7.760e-6	80.595	66.72	10546.9	86.89
		BSplines	710.5e-3	4.763e-3	715.3e-3	0.715	777	6.130e-6	80.623	70.24	10491.0	115.8
		MinNorm	732.1e-3	4.216e-3	736.3e-3	0.736	583	7.231e-6	80.594	62.17	10799.7	86.89
		MinVolume	733.5e-3	4.538e-3	738.1e-3	0.738	597	7.601e-6	80.597	66.92	10825.0	88.97
		ApproxMinVolume	726.7e-3	4.123e-3	730.8e-3	0.731	597	6.907e-6	80.597	60.81	10719.3	88.97
	3	Recursive	725.3e-3	4.248e-3	729.6e-3	0.730	591	7.188e-6	80.593	62.65	10700.4	88.08
		Recursive2	720.7e-3	4.555e-3	725.3e-3	0.725	589	7.733e-6	80.593	67.17	10637.8	87.78
		Interval	30.04e-6	3.216	3.216		393723	8.169e-6	85.311	100.0	100.0	100.0
0.01	4	Bernstein	1.420	449.0e-3	1.869	1.869	69973	6.417e-6	85.168	13.96	58.12	17.77
		MinVariance	1.519	479.7e-3	1.999	1.999	74615	6.429e-6	85.172	14.92	62.15	18.95
		BSplines	1.420	906.9e-3	2.327	2.327	154947	5.853e-6	85.215	28.20	72.36	39.35
		MinNorm	1.538	486.7e-3	2.025	2.025	72049	6.755e-6	85.170	15.13	62.95	18.30
		MinVolume	1.483	526.5e-3	2.009	2.009	80979	6.502e-6	85.175	16.37	62.47	20.57
		ApproxMinVolume	1.474	535.9e-3	2.010	2.010	81135	6.605e-6	85.175	16.66	62.51	20.61
		Recursive	1.479	465.4e-3	1.945	1.945	70077	6.642e-6	85.168	14.47	60.46	17.80
	5	Recursive2	1.485	468.4e-3	1.954	1.954	70347	6.658e-6	85.168	14.56	60.75	17.87
		Interval	28.85e-6	1922	1922	32.02	198196587	9.701e-6	100.24	100.0	100.0	100.0
		Bernstein	11.05	294.6	305.7	05:05	12832141	22.96e-6	100.11	15.32	15.90	6.474
0.01	2	MinVariance	14.42	358.7	373.2	06:13	14448465	24.83e-6	100.12	18.66	19.41	7.290
		BSplines	11.69	998.8	1010	16:50	44530227	22.43e-6	100.19	51.94	52.55	22.47
		MinNorm	14.32	346.5	360.9	06:00	13694269	25.31e-6	100.12	18.02	18.77	6.909
		MinVolume	12.60	382.4	395.0	06:34	16109081	23.74e-6	100.12	19.89	20.54	8.128
		ApproxMinVolume	12.29	351.2	363.5	06:03	16152151	21.74e-6	100.13	18.27	18.91	8.150
		Recursive	14.73	320.8	335.5	05:35	12833477	25.00e-6	100.11	16.68	17.45	6.475
		Recursive2	15.54	308.9	324.5	05:24	12849603	24.04e-6	100.11	16.07	16.88	6.483
	3	Interval	24.00e-6	4968410	4968410	57-12:06:50	429100212907	11.58e-6	116.26	100.0	100.0	100.0
		Bernstein	72.10	576410	576410	6-16:06:50	16067783129	35.87e-6	116.06	11.60	11.60	3.745
		MinVariance	75.38	657375	657375	7-14:36:15	18084989359	36.35e-6	116.06	13.23	13.23	4.215
0.01	4	BSplines	72.51	1938060	1938060	22-10:21:00	57904499645	33.47e-6	116.16	39.01	39.01	13.49
		MinNorm	75.07	613132	613132	7-02:18:52	17193195041	35.66e-6	116.06	12.34	12.34	4.007
		MinVolume	73.50	718739	718739	8-07:38:59	20235843440	35.52e-6	116.07	14.47	14.47	4.716
		ApproxMinVolume	73.54	710916	710916	8-05:28:36	20291967886	35.03e-6	116.07	14.31	14.31	4.729
		Recursive	72.25	563737	563738	6-12:35:38	16107783885	35.00e-6	116.06	11.35	11.35	3.754
		Recursive2	72.19	573654	573654	6-15:20:54	16154599175	35.51e-6	116.06	11.55	11.55	3.765
		Interval	26.94e-6	69.50e-3	69.53e-3	0.070	265	262.3e-6	82.162	100.0	100.0	100.0
	5	Bernstein	2.098	13.60e-3	2.112	2.112	195	69.77e-6	81.681	19.57	3036.9	73.58
		MinVariance	965.6e-3	10.43e-3	976.0e-3	0.976	209	49.90e-6	81.700	15.01	1403.7	78.87
		BSplines	965.7e-3	12.53e-3	978.3e-3	0.978	297	42.18e-6	81.923	18.02	1406.9	112.1
0.01	2	MinNorm	962.1e-3	6.176e-3	968.3e-3	0.968	195	31.67e-6	81.692	8.886	1392.7	73.58
		MinVolume	978.0e-3	14.78e-3	992.8e-3	0.993	209	70.74e-6	81.718	21.27	1427.8	78.87
		ApproxMinVolume	981.4e-3	4.838e-3	986.3e-3	0.986	209	23.15e-6	81.719	6.961	1418.5	78.87
		Recursive	1.023	5.526e-3	1.029	1.029	203	27.22e-6	81.681	7.950	1479.6	76.60
		Recursive2	952.5e-3	4.929e-3	957.5e-3	0.957	201	24.52e-6	81.681	7.091	1377.1	75.85
		Interval	24.08e-6	623.9e-3	623.9e-3	0.624	75517	8.262e-6	87.099	100.0	100.0	100.0
		Bernstein	1.426	125.1e-3	1.551	1.551	17463	7.162e-6	85.900	20.05	248.6	23.12
0.01	3	MinVariance	1.451	124.9e-3	1.575	1.575	18765	6.656e-6	85.929	20.02	252.5	24.85
		BSplines	1.389	231.3e-3	1.620	1.620	36935	6.263e-6	86.271	37.08	259.7	48.91
		MinNorm	1.522	126.1e-3	1.648	1.648	18103	6.965e-6	85.916	20.21	264.1	23.97
	4	MinVolume	1.522	136.0e-3	1.658	1.658	19955	6.814e-6	85.957	21.79	265.7	26.42
		ApproxMinVolume	1.515	136.0e-3	1.651	1.651	19995	6.802e-6	85.958	21.80	264.6	26.48
		Recursive	1.476	120.3e-3	1.597	1.597	17499	6.874e-6	85.900	19.28	255.9	23.17
		Recursive2	1.503	124.1e-3	1.627	1.627	17611	7.048e-6	85.900	19.89	260.8	23.32
	5	Interval	29.09e-6	188.1	188.1	03:08	19105663	9.845e-6	102.12	100.0	100.0	100.0
		Bernstein	11.10	48.34	59.44	59.438	2005097	24.11e-6	101.19	25.70	31.60	10.49
		MinVariance	14.58	56.95	71.53	01:11	2217569	25.68e-6	101.24	30.28	38.03	11.61
		BSplines	11.73	131.2	142.9	02:22	5620563	23.34e-6	101.78	69.75	75.98	29.42
		MinNorm	14.39	54.10	68.49	01:08	2116625	25.56e-6	101.22	28.76	36.41	11.08
0.01	3	MinVolume	12.83	60.24	73.07	01:13	2429159	24.80e-6	101.28	32.03	38.85	12.71
		ApproxMinVolume	12.34	60.49	72.83	01:12	2434605	24.85e-6	101.28	32.16	38.72	12.74
		Recursive	14.83	50.82	65.66	01:05	2006849	25.32e-6	101.19	27.02	34.90	10.50
		Recursive2	15.74	52.36	68.09	01:08	2016491	25.97e-6	101.19	27.84	36.20	10.55
		Interval	25.03e-6	160487	160487	1-20:34:47	13868976571	11.57e-6	119.00	100.0	100.0	100.0
	4	Bernstein	72.00	43819	43891	12:11:31	1073020121	40.84e-6	117.60	27.30	27.35	7.737
		MinVariance	75.06	48345	48420	13:27:00	1178829583	41.01e-6	117.67	30.12	30.17	8.500
		BSplines	72.58	116949	117022	1-08:30:22	2884178133	40.55e-6	118.42	72.87	72.92	20.80
		MinNorm	75.07	46753	46828	13:00:28	1129756421	41.38e-6	117.64	29.13	29.18	8.146
		MinVolume	73.23	51536	51609	14:20:09	1284918461	40.11e-6	117.73	32.11	32.16	9.265
0.01	5	ApproxMinVolume	73.40	53663	53736	14:55:36	1287711255	41.67e-6	117.73	33.44	33.48	9.285
		Recursive	69.94	43679	43749	12:09:09	1073021185	40.71e-6	117.60	27.22	27.26	7.737
		Recursive2	72.37	46092	46165	12:49:25	1088055199	42.36e-6	117.60	28.72	28.77	7.845

Table 21: Bisection of problem 2D with problem: 11, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	25.03e-6	4.878e-3	4.903e-3	0.005	299	16.31e-6	56.017	100.0	100.0	100.0
		Bernstein	715.6e-3	3.639e-3	719.3e-3	0.719	291	12.51e-6	56.017	74.60	14669.7	97.32
		MinVariance	716.5e-3	3.320e-3	719.8e-3	0.720	291	11.41e-6	56.020	68.06	14681.1	97.32
		BSplines	719.7e-3	3.521e-3	723.3e-3	0.723	353	9.974e-6	56.047	72.18	14751.2	118.1
		MinNorm	730.4e-3	3.550e-3	734.0e-3	0.734	291	12.20e-6	56.019	72.78	14970.1	97.32
	3	MinVolume	727.2e-3	3.829e-3	731.0e-3	0.731	291	13.16e-6	56.022	78.49	14909.0	97.32
		ApproxMinVolume	716.8e-3	3.509e-3	720.3e-3	0.720	291	12.06e-6	56.022	71.94	14691.4	97.32
		Recursive	724.0e-3	3.945e-3	728.0e-3	0.728	291	13.56e-6	56.017	80.87	14847.6	97.32
		Recursive2	718.8e-3	3.302e-3	722.1e-3	0.722	291	11.35e-6	56.017	67.69	14728.4	97.32
		Interval	28.85e-6	356.7e-3	356.7e-3	0.357	43383	8.221e-6	66.191	100.0	100.0	100.0
0.01	4	Bernstein	1.432	165.0e-3	1.597	24033	6.867e-6	66.184	46.27	447.7	55.40	
		MinVariance	1.513	178.4e-3	1.692	25667	6.951e-6	66.188	50.03	474.3	59.16	
		BSplines	1.445	315.3e-3	1.760	1.760	50105	6.293e-6	66.235	88.41	493.5	115.5
		MinNorm	1.517	172.5e-3	1.689	24875	6.934e-6	66.186	48.36	473.6	57.34	
		MinVolume	1.479	185.6e-3	1.665	27379	6.779e-6	66.192	52.04	466.8	63.11	
	5	ApproxMinVolume	1.466	185.3e-3	1.651	27383	6.769e-6	66.192	51.97	462.8	63.12	
		Recursive	1.466	164.6e-3	1.630	24047	6.844e-6	66.184	46.15	457.0	55.43	
		Recursive2	1.479	168.4e-3	1.648	24181	6.965e-6	66.184	47.22	461.9	55.74	
		Interval	26.94e-6	981.7	981.7	16.21	101228629	9.698e-6	60.598	100.0	100.0	100.0
		Bernstein	11.08	240.0	251.1	04:11	10735221	22.36e-6	60.430	24.45	25.58	10.60
0.05	3	MinVariance	14.49	304.3	318.8	05:18	12083445	25.18e-6	60.436	31.00	32.47	11.94
		BSplines	11.63	785.8	797.4	13:17	35977821	21.84e-6	60.512	80.05	81.23	35.54
		MinNorm	14.34	280.6	294.9	04:54	11453841	24.50e-6	60.433	28.58	30.04	11.31
		MinVolume	12.62	294.3	306.9	05:06	13450631	21.88e-6	60.443	29.98	31.26	13.29
		ApproxMinVolume	12.33	327.7	340.0	05:40	13484069	24.30e-6	60.443	33.38	34.64	13.32
	4	Recursive	14.83	267.3	282.1	04:42	10737599	24.89e-6	60.430	27.23	28.74	10.61
		Recursive2	15.62	261.1	276.7	04:36	10753521	24.28e-6	60.430	26.60	28.19	10.62
		Interval	31.00e-6	1080000	1080000	12:12:00:00	93548792545	11.54e-6	68.184	100.0	100.0	100.0
		Bernstein	72.30	200761	200761	2:07:46:01	5438985345	36.91e-6	68.008	18.59	18.59	5.814
		MinVariance	75.46	230761	230762	2:16:06:02	6217429189	37.12e-6	68.018	21.37	21.37	6.646
0.1	2	BSplines	71.76	754119	754119	8:17:28:39	22437050555	33.61e-6	68.128	69.83	69.83	23.98
		MinNorm	74.83	216449	216449	2:12:07:29	5852510559	36.98e-6	68.013	20.04	20.04	6.256
		MinVolume	73.48	254547	254547	2:22:42:27	7028985835	36.21e-6	68.027	23.57	23.57	7.514
		ApproxMinVolume	73.27	255586	255586	2:22:59:46	7040768432	36.30e-6	68.027	23.67	23.67	7.526
		Recursive	72.59	202257	202257	2:08:10:57	5429930518	37.25e-6	68.008	18.73	18.73	5.804
	3	Recursive2	71.92	199032	199032	2:07:17:12	5469998197	36.39e-6	68.008	18.43	18.43	5.847
		Interval	27.89e-6	3.334e-3	3.362e-3	0.003	137	24.34e-6	57.100	100.0	100.0	100.0
		Bernstein	965.8e-3	6.902e-3	972.7e-3	0.973	109	63.32e-6	57.100	207.0	28931.7	79.56
		MinVariance	966.4e-3	12.90e-3	979.4e-3	0.979	109	118.4e-6	57.119	387.0	29130.7	79.56
		BSplines	966.9e-3	15.68e-3	982.6e-3	0.983	149	105.2e-6	57.342	470.2	29227.8	108.8
0.5	4	MinNorm	965.7e-3	13.96e-3	979.7e-3	0.980	109	128.0e-6	57.110	418.6	29140.8	79.56
		MinVolume	965.4e-3	5.669e-3	971.1e-3	0.971	109	52.01e-6	57.137	170.0	28883.8	79.56
		ApproxMinVolume	963.6e-3	5.885e-3	969.5e-3	0.970	109	53.99e-6	57.138	176.5	28838.8	79.56
		Recursive	960.4e-3	6.185e-3	966.6e-3	0.967	109	56.74e-6	57.100	185.5	28751.3	79.56
		Recursive2	958.2e-3	6.852e-3	965.0e-3	0.965	109	62.86e-6	57.100	205.5	28704.6	79.56
	5	Interval	30.04e-6	172.4e-3	172.4e-3	0.172	19889	8.667e-6	67.355	100.0	100.0	100.0
		Bernstein	1.436	67.12e-3	1.503	1.503	8995	7.462e-6	67.294	38.94	871.9	45.23
		MinVariance	1.513	73.50e-3	1.586	1.586	9653	7.614e-6	67.327	42.64	920.1	48.53
		BSplines	1.440	124.7e-3	1.565	1.565	18429	6.769e-6	67.709	72.37	907.7	92.66
		MinNorm	1.529	69.39e-3	1.598	1.598	9339	7.430e-6	67.312	40.25	927.0	46.96
0.25	3	MinVolume	1.469	74.80e-3	1.544	1.544	10193	7.339e-6	67.358	43.40	895.5	51.25
		ApproxMinVolume	1.459	75.19e-3	1.535	1.535	10199	7.372e-6	67.359	43.62	890.2	51.28
		Recursive	1.477	66.86e-3	1.544	1.544	9011	7.420e-6	67.294	38.79	895.8	45.31
		Recursive2	1.471	68.14e-3	1.539	1.539	9143	7.453e-6	67.294	39.53	892.6	45.97
		Interval	32.19e-6	92.62	92.62	01:32	9453841	9.798e-6	63.021	100.0	100.0	100.0
	4	Bernstein	11.22	32.11	43.33	43.33	1365633	23.52e-6	61.646	34.67	46.78	14.45
		MinVariance	14.55	38.54	53.09	53.091	1505723	25.59e-6	61.697	41.61	57.32	15.93
		BSplines	11.77	84.89	96.66	01:36	3652473	23.24e-6	62.298	91.65	104.4	38.63
		MinNorm	14.21	36.33	50.54	50.536	1440987	25.21e-6	61.674	39.22	54.56	15.24
		MinVolume	12.79	41.95	54.74	54.743	1643093	25.53e-6	61.746	45.29	59.10	17.38
0.05	5	ApproxMinVolume	12.49	40.35	52.84	52.836	1646349	24.51e-6	61.747	43.56	57.04	17.41
		Recursive	14.78	33.85	48.63	48.633	1367341	24.76e-6	61.646	36.54	52.51	14.46
		Recursive2	15.76	34.88	50.64	50.642	1377377	25.33e-6	61.646	37.66	54.68	14.57
		Interval	27.89e-6	59962	59962	16:39:22	5023190703	11.94e-6	71.090	100.0	100.0	100.0
		Bernstein	73.11	18268	18341	05:05:41	453747671	40.26e-6	69.785	30.47	30.59	9.033
	6	MinVariance	75.51	21196	21272	05:54:32	510747573	41.50e-6	69.861	35.35	35.48	10.17
		BSplines	72.34	61019	61091	16:58:11	1568563887	38.90e-6	70.743	101.8	101.9	31.23
		MinNorm	75.08	20128	20203	05:36:43	484179977	41.57e-6	69.826	33.57	33.69	9.639
		MinVolume	73.76	23774	23848	06:37:28	569356941	41.76e-6	69.932	39.65	39.77	11.33
		ApproxMinVolume	73.21	22885	22958	06:22:38	570913097	40.09e-6	69.934	38.17	38.29	11.37
0.1	7	Recursive	72.43	18612	18684	05:11:24	454231491	40.98e-6	69.785	31.04	31.16	9.043
		Recursive2	72.50	19138	19211	05:20:11	466446525	41.03e-6	69.785	31.92	32.04	9.286

Table 22: Bisection of problem 2D with problem: 12, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	33.14e-6	2.741e-3	2.774e-3	0.003	59	46.46e-6	infeasible	100.0	100.0	100.0
		Bernstein	715.2e-3	2.954e-3	718.1e-3	0.718	41	72.05e-6	infeasible	107.8	25888.0	69.49
		MinVariance	718.0e-3	3.079e-3	721.1e-3	0.721	41	75.10e-6	infeasible	112.3	25994.1	69.49
		BSplines	708.7e-3	2.879e-3	711.6e-3	0.712	41	70.22e-6	infeasible	105.0	25651.4	69.49
		MinNorm	717.4e-3	3.403e-3	720.8e-3	0.721	41	83.00e-6	infeasible	124.2	25984.8	69.49
	3	MinVolume	713.5e-3	3.582e-3	717.1e-3	0.717	41	87.37e-6	infeasible	130.7	25852.2	69.49
		ApproxMinVolume	714.9e-3	3.151e-3	718.0e-3	0.718	41	76.85e-6	infeasible	115.0	25884.8	69.49
		Recursive	702.8e-3	3.903e-3	706.7e-3	0.707	41	95.19e-6	infeasible	142.4	25477.2	69.49
		Recursive2	707.4e-3	3.192e-3	710.6e-3	0.711	41	77.85e-6	infeasible	116.5	25614.9	69.49
		Interval	34.09e-6	77.77e-3	77.80e-3	0.078	8983	8.657e-6	45.742	100.0	100.0	100.0
0.005	4	Bernstein	1.434	48.36e-3	1.482	1.482	6787	7.125e-6	45.738	62.19	1905.3	75.55
		MinVariance	1.537	61.76e-3	1.599	1.599	7429	8.313e-6	45.742	79.41	2054.8	82.70
		BSplines	1.468	84.18e-3	1.552	1.552	12745	6.605e-6	45.794	108.2	1994.8	141.9
		MinNorm	1.531	51.59e-3	1.583	1.583	7075	7.292e-6	45.740	66.34	2034.5	78.76
		MinVolume	1.464	55.01e-3	1.519	1.519	8017	6.861e-6	45.746	70.73	1953.0	89.25
	5	ApproxMinVolume	1.474	56.34e-3	1.531	1.531	8021	7.024e-6	45.746	72.45	1967.4	89.29
		Recursive	1.470	48.74e-3	1.519	1.519	6787	7.182e-6	45.738	62.68	1952.1	75.55
		Recursive2	1.469	50.85e-3	1.520	1.520	6867	7.404e-6	45.738	65.38	1953.4	76.44
		Interval	29.09e-6	40.04	40.04	40.041	4047819	9.892e-6	35.418	100.0	100.0	100.0
		Bernstein	11.04	20.32	31.36	31.359	884087	22.98e-6	35.363	50.74	78.32	21.84
0.01	2	MinVariance	14.35	25.43	39.78	39.780	991345	25.65e-6	35.368	63.51	99.35	24.49
		BSplines	11.76	71.92	83.68	01:23	3122817	23.03e-6	35.424	179.6	209.0	77.15
		MinNorm	14.40	23.50	37.90	37.897	940015	25.00e-6	35.365	58.69	94.65	23.22
		MinVolume	12.60	27.34	39.94	39.940	1101689	24.82e-6	35.372	68.29	99.75	27.22
		ApproxMinVolume	12.32	26.83	39.15	39.154	1104841	24.28e-6	35.372	67.01	97.79	27.29
	3	Recursive	14.75	21.96	36.71	36.707	884655	24.82e-6	35.363	54.84	91.67	21.86
		Recursive2	15.44	21.88	37.33	37.326	888681	24.62e-6	35.363	54.65	93.22	21.95
		Interval	28.00e-6	1246720	1246720	14:10:18:40	110942776513	11.24e-6	35.082	100.0	100.0	100.0
		Bernstein	71.59	844226	844226	9:18:30:26	23687231457	35.64e-6	34.945	67.72	67.72	21.35
		MinVariance	75.31	948177	948177	10:23:22:57	26508599413	35.77e-6	34.953	76.05	76.05	23.89
0.05	4	BSplines	71.83	2605510	2605510	30:03:45:10	79706071050	32.69e-6	35.045	209.0	209.0	71.84
		MinNorm	74.79	902753	902754	10:10:45:54	25193676565	35.83e-6	34.949	72.41	72.41	22.71
		MinVolume	73.43	1037130	1037130	12:00:05:30	29414193493	35.26e-6	34.961	83.19	83.19	26.51
		ApproxMinVolume	73.37	1042450	1042450	12:01:34:10	29491066469	35.35e-6	34.961	83.62	83.62	26.58
		Recursive	72.59	853486	853486	9:21:04:46	23739565473	35.95e-6	34.945	68.46	68.46	21.40
	5	Recursive2	72.35	855328	855328	9:21:35:28	23834461967	35.89e-6	34.945	68.61	68.61	21.48
		Interval	32.19e-6	3.793e-3	3.830e-3	0.004	59	64.37e-6	infeasible	100.0	100.0	100.0
		Bernstein	765.8e-3	6.239e-3	772.0e-3	0.772	41	152.2e-6	infeasible	164.3	20156.7	69.49
		MinVariance	769.2e-3	7.156e-3	776.4e-3	0.776	41	174.5e-6	infeasible	188.4	20269.5	69.49
		BSplines	766.2e-3	3.621e-3	769.9e-3	0.770	41	88.31e-6	infeasible	95.34	20100.1	69.49
0.1	2	MinNorm	765.4e-3	9.018e-3	774.4e-3	0.774	41	220.0e-6	infeasible	237.4	20218.5	69.49
		MinVolume	764.8e-3	4.676e-3	769.5e-3	0.769	41	114.0e-6	infeasible	123.1	20089.4	69.49
		ApproxMinVolume	765.9e-3	4.660e-3	770.6e-3	0.771	41	113.7e-6	infeasible	122.7	20119.1	69.49
		Recursive	765.8e-3	6.749e-3	772.6e-3	0.773	41	164.6e-6	infeasible	177.7	20170.6	69.49
		Recursive2	750.1e-3	5.040e-3	755.2e-3	0.755	41	122.9e-6	infeasible	132.7	19715.9	69.49
	3	Interval	29.09e-6	35.59e-3	36.02e-3	0.036	4027	8.938e-6	46.854	100.0	100.0	100.0
		Bernstein	1.452	23.00e-3	1.475	1.475	2903	7.924e-6	46.813	63.91	4094.0	72.09
		MinVariance	1.536	24.88e-3	1.561	1.561	3149	7.901e-6	46.849	69.13	4334.4	78.20
		BSplines	1.438	34.33e-3	1.472	1.472	4851	7.076e-6	47.265	95.38	4086.5	120.5
		MinNorm	1.526	23.96e-3	1.550	1.550	3033	7.898e-6	46.833	66.56	4303.4	75.32
0.5	4	MinVolume	1.489	25.37e-3	1.514	1.514	3307	7.673e-6	46.883	70.50	4203.5	82.12
		ApproxMinVolume	1.473	26.79e-3	1.500	1.500	3307	8.102e-6	46.884	74.44	4164.8	82.12
		Recursive	1.479	23.12e-3	1.503	1.503	2903	7.964e-6	46.813	64.23	4171.2	72.09
		Recursive2	1.482	23.73e-3	1.506	1.506	2971	7.986e-6	46.813	65.92	4179.6	73.78
		Interval	35.05e-6	12.89	12.89	12.890	1281177	10.06e-6	36.786	100.0	100.0	100.0
	5	Bernstein	11.20	6.961	18.16	18.163	310257	22.44e-6	36.315	54.00	140.9	24.22
		MinVariance	14.69	9.455	24.14	24.142	343109	27.56e-6	36.354	73.35	187.3	26.78
		BSplines	11.78	21.69	33.47	33.470	896567	24.20e-6	36.812	168.3	259.7	69.98
		MinNorm	14.49	8.509	22.99	22.995	328021	25.94e-6	36.337	66.01	178.4	25.60
		MinVolume	12.71	9.624	22.33	22.331	376629	25.55e-6	36.392	74.66	173.2	29.40
1	2	ApproxMinVolume	12.30	9.460	21.76	21.764	377447	25.06e-6	36.392	73.39	168.8	29.46
		Recursive	14.89	7.417	22.31	22.307	310731	23.87e-6	36.315	57.54	173.1	24.25
		Recursive2	15.57	8.182	23.76	23.756	315263	25.95e-6	36.315	63.48	184.3	24.61
		Interval	30.04e-6	17303	17303	04:48:23	1503905297	11.51e-6	37.512	100.0	100.0	100.0
		Bernstein	72.08	19581	19653	05:27:33	494270911	39.62e-6	36.421	113.2	113.6	32.87
	3	MinVariance	75.25	21644	21719	06:01:59	538540131	40.19e-6	36.485	125.1	125.5	35.81
		BSplines	72.41	44562	44634	12:23:54	1203225521	37.04e-6	37.240	257.5	258.0	80.01
		MinNorm	74.93	20680	20755	05:45:55	518072165	39.92e-6	36.456	119.5	119.9	34.45
		MinVolume	73.29	23076	23149	06:25:49	582455005	39.62e-6	36.545	133.4	133.8	38.73
		ApproxMinVolume	73.53	23429	23502	06:31:42	583598409	40.15e-6	36.547	135.4	135.8	38.81
4	5	Recursive	72.78	20300	20372	05:39:32	495554445	40.96e-6	36.421	117.3	117.7	32.95
		Recursive2	72.18	20136	20208	05:36:48	508249521	39.62e-6	36.421	116.4	116.8	33.80

Table 23: Bisection of problem 2D with problem: 13, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	14.31e-3	14.34e-3	0.014	1759	8.135e-6	83.601	100.0	100.0	100.0
		Bernstein	832.2e-3	6.817e-3	839.0e-3	0.839	935	7.291e-6	83.541	47.64	5850.7	53.16
		MinVariance	915.7e-3	6.397e-3	922.2e-3	0.922	979	6.534e-6	83.543	44.70	6430.6	55.66
		BSplines	844.8e-3	10.39e-3	855.2e-3	0.855	2145	4.845e-6	83.571	72.63	5963.9	121.9
		MinNorm	901.2e-3	5.921e-3	907.2e-3	0.907	965	6.136e-6	83.542	41.38	6326.1	54.86
		MinVolume	878.0e-3	6.041e-3	884.1e-3	0.884	1035	5.837e-6	83.546	42.22	6165.0	58.84
		ApproxMinVolume	876.3e-3	6.514e-3	882.9e-3	0.883	1035	6.294e-6	83.546	45.52	6156.7	58.84
	3	Recursive	845.7e-3	6.093e-3	851.8e-3	0.852	1053	5.786e-6	83.541	42.58	5940.1	59.86
		Recursive2	831.7e-3	6.949e-3	838.7e-3	0.839	989	7.026e-6	83.541	48.56	5848.4	56.23
		Interval	30.04e-6	3.286	3.286		397169	8.275e-6	86.025	100.0	100.0	100.0
0.01	4	Bernstein	3.397	1.078	4.475	4.475	92125	11.70e-6	85.877	32.80	136.2	23.20
		MinVariance	4.668	1.333	6.001	6.001	105721	12.61e-6	85.881	40.56	182.6	26.62
		BSplines	3.552	4.413	7.965	7.965	373795	11.81e-6	85.976	134.3	242.3	94.11
		MinNorm	4.511	1.229	5.740	5.740	99959	12.30e-6	85.879	37.40	174.7	25.17
		MinVolume	3.971	1.445	5.416	5.416	119887	12.06e-6	85.884	43.98	164.8	30.19
		ApproxMinVolume	3.936	1.440	5.376	5.376	120115	11.99e-6	85.884	43.81	163.6	30.24
		Recursive	3.855	1.167	5.022	5.022	98935	11.80e-6	85.877	35.51	152.8	24.91
	5	Recursive2	4.379	1.125	5.504	5.504	93995	11.97e-6	85.877	34.25	167.5	23.67
		Interval	27.89e-6	2541	2541	42.21	279946417	9.080e-6	100.93	100.0	100.0	100.0
		Bernstein	11.44	477.8	489.2	08:09	16767497	28.50e-6	100.75	18.80	19.25	5.990
0.05	2	MinVariance	15.19	645.1	660.3	11:00	20744099	31.10e-6	100.77	25.38	25.98	7.410
		BSplines	11.95	3587	3599	59.59	122967905	29.17e-6	100.89	141.1	141.6	43.93
		MinNorm	14.73	582.3	597.0	09:56	18850797	30.89e-6	100.76	22.91	23.49	6.734
		MinVolume	13.27	761.3	774.6	12:54	25314221	30.08e-6	100.78	29.95	30.47	9.043
		ApproxMinVolume	13.05	747.1	760.2	12:40	25553787	29.24e-6	100.78	29.39	29.91	9.128
		Recursive	16.01	560.2	576.2	09:36	18771931	29.84e-6	100.75	22.04	22.67	6.706
		Recursive2	15.69	597.5	613.2	10:13	19772333	30.22e-6	100.75	23.51	24.12	7.063
	3	Interval	23.00e-6	3716460	3716460	43:00:21:00	324503133857	11.45e-6	116.70	100.0	100.0	100.0
		Bernstein	73.90	631852	631852	7:07:30:52	12333110815	51.23e-6	116.43	17.00	17.00	3.801
		MinVariance	78.00	834793	834793	9:15:53:13	16252345089	51.36e-6	116.44	22.46	22.46	5.008
0.1	4	BSplines	73.15	in progress	> 60 days							
		MinNorm	77.34	734696	734697	8:12:04:57	14321816973	51.30e-6	116.44	19.77	19.77	4.413
		MinVolume	75.92	1041910	1041910	12:01:25:10	20785240404	50.13e-6	116.46	28.04	28.04	6.405
		ApproxMinVolume	75.27	1065830	1065830	12:08:03:50	20880171405	51.05e-6	116.46	28.68	28.68	6.435
		Recursive	73.66	743311	743311	8:14:28:31	14505373005	51.24e-6	116.43	20.00	20.00	4.470
		Recursive2	74.40	701939	701939	8:02:58:59	13732733529	51.11e-6	116.43	18.89	18.89	4.232
		Interval	32.90e-6	5.397e-3	5.430e-3	0.005	367	14.71e-6	84.553	100.0	100.0	100.0
	5	Bernstein	876.0e-3	5.802e-3	881.8e-3	0.882	225	25.79e-6	84.078	107.5	16240.3	61.31
		MinVariance	931.9e-3	5.433e-3	937.3e-3	0.937	253	21.47e-6	84.097	100.7	17262.1	68.94
		BSplines	876.0e-3	5.521e-3	881.6e-3	0.882	609	9.066e-6	84.792	102.3	16235.1	165.9
0.15	2	MinNorm	925.6e-3	5.334e-3	930.9e-3	0.931	227	23.50e-6	84.088	98.83	17144.5	61.85
		MinVolume	894.8e-3	5.504e-3	900.3e-3	0.900	287	19.18e-6	84.115	102.0	16579.9	78.20
		ApproxMinVolume	901.0e-3	5.974e-3	907.0e-3	0.907	287	20.81e-6	84.115	110.7	16703.5	78.20
		Recursive	870.5e-3	7.621e-3	878.2e-3	0.878	317	24.04e-6	84.078	141.2	16172.8	86.38
		Recursive2	871.7e-3	8.919e-3	880.6e-3	0.881	273	32.67e-6	84.078	165.3	16218.1	74.39
		Interval	24.08e-6	629.3e-3	629.3e-3	0.629	76245	8.253e-6	87.774	100.0	100.0	100.0
		Bernstein	3.433	250.0e-3	3.683	3.683	20815	12.01e-6	86.563	39.73	585.3	27.30
	3	MinVariance	4.722	316.7e-3	5.038	5.038	24535	12.91e-6	86.773	50.33	800.7	32.18
		BSplines	3.593	1.033	4.626	4.626	83857	12.31e-6	87.383	164.1	735.1	110.0
		MinNorm	4.538	298.7e-3	4.837	4.837	22965	13.01e-6	86.578	47.47	768.7	30.12
0.25	4	MinVolume	3.966	323.5e-3	4.289	4.289	27045	11.96e-6	86.800	51.41	681.6	35.47
		ApproxMinVolume	3.932	332.8e-3	4.265	4.265	27117	12.27e-6	86.801	52.89	677.7	35.57
		Recursive	3.855	312.7e-3	4.168	4.168	26219	11.93e-6	86.563	49.69	662.3	34.39
		Recursive2	4.371	277.6e-3	4.648	4.648	22877	12.14e-6	86.563	44.12	738.7	30.00
		Interval	34.09e-6	216.8	216.8	03:36	21838345	9.926e-6	103.16	100.0	100.0	100.0
		Bernstein	11.63	55.34	66.97	01:06	1923363	28.77e-6	101.86	25.53	30.89	8.807
		MinVariance	15.35	74.90	90.25	01:30	2293605	32.66e-6	101.91	34.55	41.63	10.50
	5	BSplines	12.04	377.9	389.9	06:29	14122699	26.76e-6	103.03	174.3	179.9	64.67
		MinNorm	15.03	66.44	81.47	01:21	2070187	32.09e-6	101.89	30.65	37.58	9.480
		MinVolume	13.26	85.49	98.76	01:38	2813635	30.39e-6	101.96	39.44	45.56	12.88
0.35	2	ApproxMinVolume	13.24	85.38	98.62	01:38	2826523	30.21e-6	101.97	39.38	45.49	12.94
		Recursive	15.92	106.8	122.7	02:02	3349909	31.88e-6	101.86	49.26	56.60	15.34
		Recursive2	15.87	115.6	131.5	02:11	3625501	31.89e-6	101.86	53.33	60.65	16.60
		Interval	27.89e-6	139848	139848	1:14:50:48	1212389653	11.53e-6	120.04	100.0	100.0	100.0
		Bernstein	74.01	45234	45308	12:35:08	821478845	55.06e-6	118.05	32.35	32.40	6.776
		MinVariance	78.65	56001	56080	15:34:40	1039818845	53.86e-6	118.16	40.04	40.10	8.577
		BSplines	95.85	551929	552024	6:09:20:24	10091161335	54.69e-6	120.02	394.7	394.7	83.23
	3	MinNorm	77.45	49883	49960	13:52:40	923917317	53.99e-6	118.11	35.67	35.73	7.621
		MinVolume	73.46	69869	69943	19:25:43	1359731795	51.38e-6	118.31	49.96	50.01	11.22
		ApproxMinVolume	75.53	74680	74756	20:45:56	1367982335	54.59e-6	118.31	53.40	53.46	11.28
	4	Recursive	74.07	96324	96398	1:02:46:38	1763392485	54.62e-6	118.05	68.88	68.93	14.54
		Recursive2	74.28	79730	79804	22:10:04	1444148721	55.21e-6	118.05	57.01	57.07	11.91

Table 24: Bisection of problem 2D with problem: 14, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	29.09e-6	4.641e-3	4.670e-3	0.005	309	15.02e-6	56.197	100.0	100.0	100.0
		Bernstein	806.1e-3	3.935e-3	810.0e-3	0.810	285	13.81e-6	56.197	84.79	17345.3	92.23
		MinVariance	844.3e-3	3.985e-3	848.3e-3	0.848	305	13.07e-6	56.200	85.86	18164.2	98.71
		BSplines	843.0e-3	5.383e-3	848.4e-3	0.848	581	9.265e-6	56.287	116.0	18166.0	188.0
		MinNorm	822.5e-3	4.220e-3	826.7e-3	0.827	297	14.21e-6	56.199	90.93	17702.1	96.12
		MinVolume	852.4e-3	4.451e-3	856.9e-3	0.857	319	13.95e-6	56.202	95.91	18348.1	103.2
		ApproxMinVolume	832.0e-3	4.921e-3	837.0e-3	0.837	319	15.43e-6	56.202	106.0	17922.0	103.2
	3	Recursive	868.8e-3	4.085e-3	872.9e-3	0.873	347	11.77e-6	56.197	88.02	18691.2	112.3
		Recursive2	883.3e-3	4.488e-3	887.8e-3	0.888	301	14.91e-6	56.197	96.70	19009.5	97.41
		Interval	33.14e-6	488.4e-3	488.4e-3	0.488	57467	8.498e-6	66.964	100.0	100.0	100.0
0.01	4	Bernstein	3.381	324.6e-3	3.706	3.706	27483	11.81e-6	66.956	66.46	758.7	47.82
		MinVariance	4.675	431.3e-3	5.106	5.106	32117	13.43e-6	66.960	88.30	1045.5	55.89
		BSplines	3.546	1.496	5.042	5.042	131623	11.37e-6	67.056	306.4	1032.4	229.0
		MinNorm	4.474	385.8e-3	4.859	4.859	29939	12.89e-6	66.958	78.99	994.9	52.10
		MinVolume	3.931	497.1e-3	4.428	4.428	43345	11.47e-6	66.964	101.8	906.7	75.43
		ApproxMinVolume	3.972	507.7e-3	4.480	4.480	43481	11.68e-6	66.964	104.0	917.2	75.66
		Recursive	3.871	388.9e-3	4.260	4.260	30669	12.68e-6	66.956	79.63	872.1	53.37
	5	Recursive2	4.411	363.1e-3	4.774	4.774	28249	12.86e-6	66.956	74.36	977.5	49.16
		Interval	22.89e-6	1380	1380	23.00	138635525	9.960e-6	61.348	100.0	100.0	100.0
		Bernstein	11.50	407.6	419.1	06:59	14467777	28.17e-6	61.169	29.52	30.35	10.44
0.05	2	MinVariance	15.26	580.8	596.0	09:56	18199891	31.91e-6	61.181	42.06	43.16	13.13
		BSplines	12.00	2987	2999	49:59	107209103	27.87e-6	61.321	216.4	217.2	77.33
		MinNorm	14.75	509.1	523.9	08:43	16555737	30.75e-6	61.175	36.87	37.94	11.94
		MinVolume	13.23	673.6	686.8	11:26	22183567	30.36e-6	61.193	48.78	49.74	16.00
		ApproxMinVolume	12.96	666.9	679.8	11:19	22275089	29.94e-6	61.193	48.29	49.23	16.07
		Recursive	15.72	466.4	482.1	08:02	15596101	29.90e-6	61.169	33.78	34.91	11.25
		Recursive2	15.69	478.5	494.2	08:14	15645561	30.59e-6	61.169	34.66	35.79	11.29
	3	Interval	29.00e-6	1735250	1735250	20-02:00:50	151278296982	11.47e-6	69.047	100.0	100.0	100.0
		Bernstein	73.84	389912	389913	4-12:18:33	7632334923	51.09e-6	68.855	22.47	22.47	5.045
		MinVariance	77.97	517962	517962	5-23:52:42	10073952213	51.42e-6	68.873	29.85	29.85	6.659
0.1	4	BSplines	73.72	4820730	4820730	55-19:05:30	94535010765	50.99e-6	69.079	277.8	277.8	62.49
		MinNorm	77.49	463219	463219	5-08:40:19	8851231154	52.33e-6	68.865	26.69	26.69	5.851
		MinVolume	75.61	656363	656363	7-14:19:23	12904267211	50.86e-6	68.890	37.83	37.83	8.530
		ApproxMinVolume	75.61	668362	668362	7-17:39:22	12984726841	51.47e-6	68.890	38.52	38.52	8.583
		Recursive	73.69	450767	450767	5-05:12:47	8626207494	52.26e-6	68.855	25.98	25.98	5.702
		Recursive2	74.10	415463	415463	4-19:24:23	8053202773	51.59e-6	68.855	23.94	23.94	5.323
		Interval	30.99e-6	3.422e-3	3.453e-3	0.003	143	23.93e-6	57.100	100.0	100.0	100.0
	5	Bernstein	1.076	4.596e-3	1.081	1.081	105	43.77e-6	57.100	134.3	31297.0	73.43
		MinVariance	1.076	5.231e-3	1.081	1.081	113	46.29e-6	57.119	152.9	31315.2	79.02
		BSplines	1.076	4.616e-3	1.081	1.081	279	16.54e-6	57.825	134.9	31296.7	195.1
0.15	2	MinNorm	2.260	10.44e-3	2.271	2.271	109	95.79e-6	57.110	305.1	65758.7	76.22
		MinVolume	2.260	9.986e-3	2.270	2.270	127	78.63e-6	57.137	291.8	65742.7	88.81
		ApproxMinVolume	2.262	12.37e-3	2.274	2.274	127	97.39e-6	57.138	361.4	65854.5	88.81
		Recursive	2.261	11.65e-3	2.273	2.273	163	71.45e-6	57.100	340.4	65823.8	114.0
		Recursive2	2.260	8.224e-3	2.268	2.268	121	67.97e-6	57.100	240.3	65685.7	84.62
		Interval	23.84e-6	184.2e-3	184.2e-3	0.184	21921	8.402e-6	68.518	100.0	100.0	100.0
		Bernstein	3.390	125.6e-3	3.516	3.516	9905	12.68e-6	68.447	68.21	1908.8	45.18
0.2	3	MinVariance	4.704	153.9e-3	4.858	4.858	11315	13.60e-6	68.480	83.57	2637.3	51.62
		BSplines	3.580	539.7e-3	4.120	4.120	43593	12.38e-6	69.244	293.0	2236.5	198.9
		MinNorm	4.508	138.4e-3	4.646	4.646	10539	13.13e-6	68.465	75.16	2522.5	48.08
	4	MinVolume	3.926	163.7e-3	4.089	4.089	13067	12.53e-6	68.511	88.89	2220.1	59.61
		ApproxMinVolume	3.982	173.0e-3	4.155	4.155	13105	13.20e-6	68.512	93.94	2255.6	59.78
		Recursive	3.876	174.0e-3	4.050	4.050	13539	12.86e-6	68.447	94.50	2198.8	61.76
	5	Recursive2	4.352	138.7e-3	4.491	4.491	10825	12.81e-6	68.447	75.29	2438.2	49.38
		Interval	30.04e-6	100.7	100.7	01:40	9683383	10.40e-6	63.828	100.0	100.0	100.0
		Bernstein	11.65	42.43	54.08	54.077	1446751	29.33e-6	62.291	42.12	53.69	14.94
0.25	2	MinVariance	15.39	57.88	73.27	01:13	1767887	32.74e-6	62.387	57.47	72.74	18.26
		BSplines	12.12	282.2	294.3	04:54	9458327	29.83e-6	63.535	280.1	292.2	97.68
		MinNorm	15.10	50.92	66.03	01:06	1597585	31.88e-6	62.323	50.56	65.55	16.50
		MinVolume	13.19	65.02	78.21	01:18	2149515	30.25e-6	62.454	64.55	77.65	22.20
		ApproxMinVolume	13.09	65.02	78.11	01:18	2158605	30.12e-6	62.457	64.55	77.54	22.29
		Recursive	15.90	61.37	77.26	01:17	1987681	30.87e-6	62.291	60.93	76.71	20.53
		Recursive2	15.85	66.40	82.25	01:22	2143553	30.98e-6	62.291	65.93	81.66	22.14
	3	Interval	35.05e-6	53601	53601	14:53:21	4690020111	11.43e-6	72.049	100.0	100.0	100.0
		Bernstein	99.05	22184	22283	06:11:23	416835919	53.22e-6	70.530	41.39	41.57	8.888
		MinVariance	103.2	29305	29408	08:10:08	542403241	54.03e-6	70.642	54.67	54.87	11.57
0.3	4	BSplines	98.89	267826	267826	3-02:23:46	5106155908	52.45e-6	72.337	499.7	499.7	108.9
		MinNorm	102.6	25621	25724	07:08:44	476926901	53.72e-6	70.568	47.80	47.99	10.17
		MinVolume	101.5	40851	40953	11:22:33	706534125	57.82e-6	70.758	76.21	76.40	15.06
	5	ApproxMinVolume	100.9	37214	37315	10:21:55	710494281	52.38e-6	70.760	69.43	69.62	15.15
		Recursive	98.93	39381	39480	10:58:00	752622697	52.33e-6	70.530	73.47	73.66	16.05
		Recursive2	99.34	32623	32722	09:05:22	61932045	52.68e-6	70.530	60.86	61.05	13.21

Table 25: Bisection of problem 2D with problem: 15, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	3.115e-3	3.146e-3	0.003	89	35.00e-6	infeasible	100.0	100.0	100.0
		Bernstein	855.7e-3	3.047e-3	858.8e-3	0.859	65	46.88e-6	infeasible	97.82	27297.8	73.03
		MinVariance	901.0e-3	3.460e-3	904.4e-3	0.904	61	56.72e-6	infeasible	111.1	28749.6	68.54
		BSplines	840.7e-3	3.297e-3	844.1e-3	0.844	111	29.70e-6	infeasible	105.8	26830.0	124.7
		MinNorm	891.9e-3	3.185e-3	895.1e-3	0.895	59	53.98e-6	infeasible	102.3	28451.7	66.29
		MinVolume	882.0e-3	3.016e-3	885.0e-3	0.885	69	43.71e-6	infeasible	96.82	28131.4	77.53
	3	ApproxMinVolume	891.4e-3	3.407e-3	894.8e-3	0.895	69	49.38e-6	infeasible	109.4	28442.5	77.53
		Recursive	867.5e-3	3.394e-3	871.0e-3	0.871	91	37.30e-6	infeasible	109.0	27685.0	102.2
		Recursive2	846.2e-3	3.417e-3	849.6e-3	0.850	119	28.71e-6	infeasible	109.7	27006.6	133.7
		Interval	28.85e-6	426.2e-3	426.3e-3	0.426	50577	8.428e-6	47.608	100.0	100.0	100.0
0.01	4	Bernstein	3.404	397.4e-3	3.801	3.801	31069	12.79e-6	47.567	93.23	891.8	61.43
		MinVariance	4.727	503.3e-3	5.230	5.230	35549	14.16e-6	47.571	118.1	1227.0	70.29
		BSplines	3.600	1.390	4.990	4.990	109921	12.65e-6	47.694	326.2	1170.6	217.3
		MinNorm	4.511	447.3e-3	4.958	4.958	33345	13.41e-6	47.569	104.9	1163.2	65.93
		MinVolume	3.919	522.1e-3	4.441	4.441	39941	13.07e-6	47.575	122.5	1041.8	78.97
		ApproxMinVolume	3.914	531.4e-3	4.445	4.445	40003	13.28e-6	47.576	124.7	1042.8	79.09
	5	Recursive	3.872	411.9e-3	4.284	4.284	32383	12.72e-6	47.567	96.63	1005.0	64.03
		Recursive2	4.388	423.5e-3	4.812	4.812	31859	13.29e-6	47.567	99.37	1128.8	62.99
		Interval	30.99e-6	115.5	115.5	0.055	11486469	10.06e-6	35.729	100.0	100.0	100.0
		Bernstein	11.52	72.19	83.70	0.023	2535375	28.47e-6	35.671	62.48	72.45	22.07
0.1	2	MinVariance	15.28	105.4	120.7	0.020	3274205	32.19e-6	35.679	91.23	104.5	28.50
		BSplines	11.96	659.5	671.4	11.11	22128483	29.80e-6	35.777	570.8	581.2	192.6
		MinNorm	14.77	92.31	107.1	0.047	2909521	31.73e-6	35.677	79.91	92.69	25.33
		MinVolume	13.16	120.9	134.0	0.024	4025573	30.03e-6	35.685	104.6	116.0	35.05
		ApproxMinVolume	12.92	120.6	133.6	0.023	4043095	29.84e-6	35.685	104.4	115.6	35.20
		Recursive	15.92	82.29	98.21	0.038	2666987	30.85e-6	35.671	71.23	85.01	23.22
	3	Recursive2	15.78	87.01	102.8	0.042	2817047	30.89e-6	35.671	75.31	88.97	24.52
		Interval	28.00e-6	687650	687650	7-23:00:50	59005613511	11.65e-6	35.750	100.0	100.0	100.0
		Bernstein	73.58	456398	456398	5-06:46:38	9110726498	50.09e-6	35.610	66.37	66.37	15.44
		MinVariance	78.14	624199	624199	7-05:23:19	12365380847	50.48e-6	35.626	90.77	90.77	20.96
0.1	4	BSplines	73.70	in progress	> 60 days							
		MinNorm	77.24	549998	549998	6-08:46:38	10896867091	50.47e-6	35.618	79.98	79.98	18.47
		MinVolume	75.64	793283	793283	9-04:21:23	16186187558	49.01e-6	35.641	115.4	115.4	27.43
		ApproxMinVolume	75.37	825185	825185	9-13:13:05	16301546790	50.62e-6	35.642	120.0	120.0	27.63
		Recursive	74.17	488684	488684	5-15:44:44	9897003665	49.38e-6	35.610	71.07	71.07	16.77
		Recursive2	73.95	484539	484539	5-14:35:39	9592032214	50.51e-6	35.610	70.46	70.46	16.26
	5	Interval	26.94e-6	77.60e-3	77.62e-3	0.078	89	871.9e-6	infeasible	100.0	100.0	100.0
		Bernstein	2.260	9.079e-3	2.269	2.269	65	139.7e-6	infeasible	11.70	2923.4	73.03
		MinVariance	2.260	8.334e-3	2.268	2.268	61	136.6e-6	infeasible	10.74	2922.2	68.54
		BSplines	2.260	6.923e-3	2.267	2.267	111	62.37e-6	infeasible	8.922	2920.1	124.7
0.1	2	MinNorm	2.260	5.535e-3	2.265	2.265	59	93.82e-6	infeasible	7.133	2918.1	66.29
		MinVolume	2.260	4.952e-3	2.265	2.265	69	71.77e-6	infeasible	6.382	2917.3	77.53
		ApproxMinVolume	2.260	7.288e-3	2.267	2.267	69	105.6e-6	infeasible	9.392	2920.7	77.53
		Recursive	2.260	3.604e-3	2.263	2.263	91	39.60e-6	infeasible	4.644	2915.9	102.2
		Recursive2	2.260	4.522e-3	2.264	2.264	119	38.00e-6	infeasible	5.828	2917.0	133.7
	3	Interval	29.80e-6	61.14e-3	61.17e-3	0.061	6937	8.813e-6	49.139	100.0	100.0	100.0
		Bernstein	3.372	52.64e-3	3.425	3.425	4049	13.00e-6	48.529	86.10	5599.5	58.37
		MinVariance	4.661	65.62e-3	4.727	4.727	4805	13.66e-6	48.565	107.3	7727.5	69.27
		BSplines	3.583	190.1e-3	3.774	3.774	15215	12.49e-6	49.543	310.9	6169.2	219.3
0.1	4	MinNorm	4.577	63.43e-3	4.640	4.640	4585	13.83e-6	48.549	103.7	7585.8	66.09
		MinVolume	3.968	70.94e-3	4.039	4.039	5373	13.20e-6	48.882	116.0	6603.0	77.45
		ApproxMinVolume	3.947	71.72e-3	4.018	4.018	5387	13.31e-6	48.882	117.3	6569.6	77.66
		Recursive	3.890	65.56e-3	3.956	3.956	5089	12.88e-6	48.529	107.2	6467.6	73.36
		Recursive2	4.384	67.08e-3	4.451	4.451	4763	14.08e-6	48.529	109.7	7276.8	68.66
		Interval	42.92e-6	26.24	26.24	26.241	2692783	9.745e-6	37.082	100.0	100.0	100.0
	5	Bernstein	11.59	13.66	25.25	25.248	508285	26.87e-6	36.580	52.04	96.21	18.88
		MinVariance	15.17	22.47	37.64	37.643	697329	32.22e-6	36.618	85.62	143.4	25.90
		BSplines	12.15	139.3	151.4	0.0231	4614157	30.18e-6	37.505	530.8	577.0	171.4
		MinNorm	15.05	19.72	34.77	34.770	616243	32.00e-6	36.601	75.16	132.5	22.88
0.1	2	MinVolume	13.19	24.00	37.19	37.189	841707	28.52e-6	36.702	91.47	141.7	31.26
		ApproxMinVolume	13.13	25.89	39.02	39.025	845367	30.63e-6	36.703	98.67	148.7	31.39
		Recursive	15.81	19.06	34.87	34.869	622349	30.63e-6	36.580	72.64	132.9	23.11
		Recursive2	15.76	23.48	39.24	39.242	779781	30.12e-6	36.580	89.49	149.5	28.96
		Interval	38.15e-6	19061	19061	05:17:41	1600276821	11.91e-6	38.245	100.0	100.0	100.0
		Bernstein	99.13	21513	21612	06:00:12	403299393	53.34e-6	37.086	112.9	113.4	25.20
0.1	3	MinVariance	103.3	27265	27368	07:36:08	499019297	54.64e-6	37.202	143.0	143.6	31.18
		BSplines	99.07	156957	156958	1-19:35:58	2979278014	52.68e-6	38.704	823.4	823.4	186.2
		MinNorm	103.1	24685	24788	06:53:08	454194825	54.35e-6	37.151	129.5	130.0	28.38
		MinVolume	101.6	32489	32591	09:03:11	618067121	52.57e-6	37.312	170.4	171.0	38.62
	4	ApproxMinVolume	101.6	33062	33163	09:12:43	621500519	53.20e-6	37.313	173.5	174.0	38.84
		Recursive	98.29	29944	30043	08:20:43	561904601	53.29e-6	37.086	157.1	157.6	35.11
		Recursive2	99.04	26455	26555	07:22:35	492025219	53.77e-6	37.086	138.8	139.3	30.75

Table 26: Bissection of problem 2D with problem: 16, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	28.85e-6	15.47e-3	15.50e-3	0.015	1977	7.825e-6	79.256	100.0	100.0	100.0
		Bernstein	762.5e-3	7.414e-3	769.9e-3	0.770	1193	6.214e-6	79.195	47.93	4967.7	60.34
		MinVariance	818.9e-3	7.375e-3	826.3e-3	0.826	1267	5.821e-6	79.197	47.68	5331.4	64.09
		BSplines	769.3e-3	12.06e-3	781.4e-3	0.781	2731	4.416e-6	79.286	77.96	5041.8	138.1
		MinNorm	781.1e-3	6.755e-3	787.9e-3	0.788	1219	5.541e-6	79.196	43.67	5083.9	61.66
		MinVolume	875.4e-3	7.811e-3	883.3e-3	0.883	1359	5.747e-6	79.199	50.49	5699.3	68.74
		ApproxMinVolume	787.5e-3	7.613e-3	795.2e-3	0.795	1361	5.594e-6	79.199	49.22	5130.7	68.84
	3	Recursive	755.9e-3	7.087e-3	763.0e-3	0.763	1295	5.473e-6	79.195	45.81	4923.5	65.50
		Recursive2	855.3e-3	7.371e-3	862.7e-3	0.863	1227	6.007e-6	79.195	47.65	5566.3	62.06
		Interval	34.09e-6	1.606	1.606	205881	7.801e-6	80.820	100.0	100.0	100.0	100.0
0.01	4	Bernstein	3.366	961.4e-3	4.328	4.328	76769	12.52e-6	80.719	59.86	269.5	37.29
		MinVariance	4.682	1.240	5.922	5.922	89543	13.85e-6	80.723	77.19	368.7	43.49
		BSplines	3.559	3.861	7.420	7.420	309183	12.49e-6	80.806	240.4	461.9	150.2
		MinNorm	4.507	1.092	5.599	5.599	84561	12.91e-6	80.722	67.97	348.6	41.07
		MinVolume	3.983	1.330	5.312	5.312	104051	12.78e-6	80.727	82.79	330.7	50.54
		ApproxMinVolume	3.977	1.354	5.330	5.330	104255	12.99e-6	80.727	84.28	331.9	50.64
		Recursive	3.916	1.009	4.925	4.925	80601	12.52e-6	80.719	62.81	306.6	39.15
	5	Recursive2	4.406	1.026	5.432	5.432	77765	13.20e-6	80.719	63.90	338.2	37.77
		Interval	25.99e-6	2469	2469	41.09	279256333	8.842e-6	93.403	100.0	100.0	100.0
		Bernstein	11.56	423.2	434.8	07:14	14731509	28.75e-6	93.208	17.14	17.61	5.275
0.05	2	MinVariance	15.22	612.5	627.7	10:27	18292447	33.48e-6	93.219	24.80	25.42	6.550
		BSplines	11.97	3033	3045	50:45	107307337	28.27e-6	93.349	122.9	123.3	38.43
		MinNorm	14.82	521.4	536.2	08:56	16719691	31.19e-6	93.214	21.12	21.72	5.987
		MinVolume	13.18	671.1	684.3	11:24	22250121	30.16e-6	93.229	27.18	27.71	7.968
		ApproxMinVolume	12.97	665.2	678.2	11:18	22338235	29.78e-6	93.229	26.94	27.47	7.999
		Recursive	15.77	481.1	496.9	08:16	15893175	30.27e-6	93.208	19.49	20.12	5.691
		Recursive2	15.85	490.8	506.6	08:26	16385337	29.95e-6	93.208	19.88	20.52	5.867
	3	Interval	28.00e-6	4108250	4108250	47:13:10:50	372573382554	11.03e-6	107.82	100.0	100.0	100.0
		Bernstein	73.76	484952	484952	5-14:42:32	9553074604	50.76e-6	107.48	11.80	11.80	2.564
		MinVariance	78.18	654506	654506	7-13:48:26	12581726837	52.02e-6	107.49	15.93	15.93	3.377
0.1	4	BSplines	73.98	in progress	> 60 days							
		MinNorm	77.28	569679	569679	6-14:14:39	11123112281	51.22e-6	107.48	13.87	13.87	2.985
		MinVolume	75.95	815357	815357	9-10:29:17	16307861911	50.00e-6	107.50	19.85	19.85	4.377
		ApproxMinVolume	75.63	831328	831328	9-14:55:28	16396808355	50.70e-6	107.50	20.24	20.24	4.401
		Recursive	74.27	534632	534633	6-04:30:33	10690906035	50.01e-6	107.48	13.01	13.01	2.869
		Recursive2	72.31	517185	517185	5-23:39:45	1026047976	50.41e-6	107.48	12.59	12.59	2.754
		Interval	25.99e-6	81.04e-3	81.07e-3	0.081	549	147.6e-6	80.229	100.0	100.0	100.0
	5	Bernstein	2.259	6.168e-3	2.265	2.265	339	18.19e-6	79.743	7.611	2794.0	61.75
		MinVariance	2.259	8.591e-3	2.268	2.268	355	24.20e-6	79.762	10.60	2797.3	64.66
		BSplines	2.259	6.426e-3	2.265	2.265	819	7.846e-6	80.473	7.929	2794.2	149.2
0.15	2	MinNorm	2.259	6.785e-3	2.266	2.266	343	19.78e-6	79.753	8.372	2794.6	62.48
		MinVolume	2.259	10.13e-3	2.269	2.269	465	21.78e-6	79.781	12.50	2799.1	84.70
		ApproxMinVolume	2.259	4.737e-3	2.264	2.264	467	10.14e-6	79.781	5.845	2792.2	85.06
		Recursive	2.259	5.178e-3	2.264	2.264	435	11.90e-6	79.743	6.389	2793.0	79.23
		Recursive2	2.259	7.648e-3	2.267	2.267	381	20.07e-6	79.743	9.437	2796.3	69.40
		Interval	22.89e-6	433.4e-3	433.5e-3	0.433	52953	8.185e-6	82.293	100.0	100.0	100.0
		Bernstein	3.406	189.7e-3	3.596	3.596	14737	12.87e-6	81.625	43.77	829.6	27.83
0.2	3	MinVariance	4.663	253.9e-3	4.917	4.917	18357	13.83e-6	81.656	58.59	1134.4	34.67
		BSplines	3.543	940.1e-3	4.483	4.483	77719	12.10e-6	82.311	216.9	1034.3	146.8
		MinNorm	4.567	224.6e-3	4.792	4.792	16873	13.31e-6	81.642	51.82	1105.5	31.86
		MinVolume	3.944	262.8e-3	4.207	4.207	21013	12.51e-6	81.685	60.63	970.6	39.68
		ApproxMinVolume	3.921	268.4e-3	4.189	4.189	21183	12.67e-6	81.686	61.91	966.5	40.00
		Recursive	3.868	232.0e-3	4.100	4.100	18069	12.84e-6	81.625	53.52	946.0	34.12
		Recursive2	4.319	213.4e-3	4.533	4.533	15735	13.56e-6	81.625	49.24	1045.7	29.72
	4	Interval	23.84e-6	242.8	242.8	04:02	24761387	9.807e-6	95.784	100.0	100.0	100.0
		Bernstein	11.66	47.80	59.46	59.461	1651391	28.95e-6	94.237	19.69	24.49	6.669
		MinVariance	15.11	64.52	79.62	01:19	1993077	32.37e-6	94.322	26.57	32.79	8.049
0.25	5	BSplines	12.05	345.4	357.4	05:57	11840691	29.17e-6	95.378	142.2	147.2	47.82
		MinNorm	14.87	57.73	72.60	01:12	1815731	31.79e-6	94.302	23.77	29.90	7.333
		MinVolume	13.14	68.27	81.41	01:21	2430469	28.09e-6	94.416	28.11	33.53	9.816
		ApproxMinVolume	13.07	70.59	83.66	01:23	2441833	28.91e-6	94.417	29.07	34.45	9.861
		Recursive	15.89	76.69	92.58	01:32	2440441	31.43e-6	94.237	31.58	38.13	9.856
		Recursive2	15.79	84.31	100.1	01:40	2644115	31.89e-6	94.237	34.72	41.23	10.68
		Interval	35.00e-6	130831	130831	1-12:20:31	12623689740	10.36e-6	111.53	100.0	100.0	100.0
	6	Bernstein	97.43	36906	37003	10:16:43	697571515	52.91e-6	108.86	28.21	28.28	5.526
		MinVariance	102.1	48144	48246	13:24:06	897835783	53.62e-6	108.99	36.80	36.88	7.112
		BSplines	98.42	410056	410056	4-17:54:16	7869407337	52.11e-6	110.49	31.34	31.34	62.34
0.3	7	MinNorm	102.0	41743	41845	11:37:25	790432719	52.81e-6	108.92	31.91	31.98	6.262
		MinVolume	100.6	58935	59036	16:23:56	1136682111	51.85e-6	109.10	45.05	45.12	9.004
		ApproxMinVolume	97.78	60880	60978	16:56:18	1145758167	53.14e-6	109.10	46.53	46.61	9.076
		Recursive	97.68	64078	64176	17:49:36	1198810095	53.45e-6	108.86	48.98	49.05	9.497
		Recursive2	97.08	54870	54967	15:16:07	1035709007	52.98e-6	108.86	41.94	42.01	8.204

Table 27: Bisection of problem 2D with problem: 17, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	33.86e-6	3.524e-3	3.558e-3	0.004	159	22.16e-6	53.397	100.0	100.0	100.0
		Bernstein	845.4e-3	3.615e-3	849.1e-3	0.849	159	22.74e-6	53.397	102.6	23864.2	100.0
		MinVariance	938.1e-3	3.988e-3	942.1e-3	0.942	183	21.79e-6	53.400	113.2	26479.7	115.1
		BSplines	864.9e-3	4.343e-3	869.3e-3	0.869	391	11.11e-6	53.486	123.2	24431.6	245.9
		MinNorm	883.9e-3	3.612e-3	887.6e-3	0.888	179	20.18e-6	53.398	102.5	24946.3	112.6
		MinVolume	895.2e-3	3.794e-3	899.1e-3	0.899	207	18.33e-6	53.402	107.7	25269.0	130.2
	3	ApproxMinVolume	797.8e-3	3.821e-3	801.6e-3	0.802	207	18.46e-6	53.402	108.4	22530.3	130.2
		Recursive	762.9e-3	3.896e-3	766.8e-3	0.767	175	22.26e-6	53.397	110.6	21553.0	110.1
		Recursive2	855.9e-3	3.462e-3	859.4e-3	0.859	179	19.34e-6	53.397	98.23	24154.3	112.6
		Interval	30.04e-6	697.9e-3	698.0e-3	0.698	83677	8.341e-6	64.042	100.0	100.0	100.0
0.01	4	Bernstein	3.415	562.0e-3	3.977	3.977	44791	12.55e-6	64.037	80.52	569.7	53.53
		MinVariance	4.665	703.4e-3	5.368	5.368	53905	13.05e-6	64.041	100.8	769.1	64.42
		BSplines	3.564	2.401	5.965	5.965	197089	12.18e-6	64.137	344.1	854.6	235.5
		MinNorm	4.522	626.5e-3	5.149	5.149	49279	12.71e-6	64.039	89.76	737.7	58.89
		MinVolume	3.978	777.3e-3	4.756	4.756	61811	12.58e-6	64.045	111.4	681.4	73.87
		ApproxMinVolume	3.970	772.9e-3	4.743	4.743	62071	12.45e-6	64.045	110.7	679.6	74.18
	5	Recursive	3.871	589.0e-3	4.460	4.460	47183	12.48e-6	64.037	84.40	639.0	56.39
		Recursive2	4.379	588.2e-3	4.967	4.967	45353	12.97e-6	64.037	84.28	711.7	54.20
		Interval	25.99e-6	948.9	948.9	15.48	104660775	9.066e-6	55.997	100.0	100.0	100.0
		Bernstein	11.49	411.4	422.9	07:02	14375207	28.62e-6	55.850	43.36	44.57	13.74
0.1	2	MinVariance	15.20	573.9	589.1	09:49	17846991	32.15e-6	55.862	60.48	62.08	17.05
		BSplines	11.94	2949	2961	49:21	98077069	30.07e-6	56.000	310.8	312.1	93.71
		MinNorm	14.89	475.0	489.9	08:09	16242609	29.25e-6	55.857	50.06	51.63	15.52
		MinVolume	13.23	669.7	682.9	11:22	21472161	31.19e-6	55.873	70.57	71.97	20.52
		ApproxMinVolume	13.06	656.1	669.2	11:09	21564243	30.43e-6	55.874	69.15	70.52	20.60
		Recursive	15.95	474.9	490.9	08:10	15010869	31.64e-6	55.850	50.05	51.73	14.34
	3	Recursive2	15.60	462.5	478.1	07:58	15089753	30.65e-6	55.850	48.75	50.39	14.42
		Interval	28.00e-6	1350520	1350520	15-15:08:40	121375517999	11.13e-6	63.149	100.0	100.0	100.0
		Bernstein	73.56	323217	323217	3-17:46:57	6280505880	51.46e-6	62.923	23.93	23.93	5.174
		MinVariance	77.90	428194	428194	4-22:56:34	8237514581	51.98e-6	62.941	31.71	31.71	6.787
0.1	4	BSplines	73.71	3722210	3722210	43-01:56:50	73456512169	50.67e-6	63.145	275.6	275.6	60.52
		MinNorm	77.17	374380	374380	4-07:59:40	7265029483	51.53e-6	62.933	27.72	27.72	5.986
		MinVolume	76.33	532077	532077	6-03:47:57	10483140457	50.76e-6	62.957	39.40	39.40	8.637
		ApproxMinVolume	75.81	531701	531701	6-03:41:41	10539658705	50.45e-6	62.958	39.37	39.37	8.684
		Recursive	74.04	348973	348973	4-00:56:13	6806633015	51.27e-6	62.923	25.84	25.84	5.608
		Recursive2	74.20	333486	333486	3-20:38:06	682265500	51.45e-6	62.923	24.69	24.69	5.341
	5	Interval	32.90e-6	118.3e-3	118.4e-3	0.118	319	371.0e-6	54.227	100.0	100.0	100.0
		Bernstein	2.259	7.758e-3	2.267	2.267	291	26.66e-6	54.227	6.555	1915.2	91.22
		MinVariance	2.259	11.63e-3	2.271	2.271	295	39.42e-6	54.246	9.827	1918.4	92.48
		BSplines	2.260	12.10e-3	2.272	2.272	551	21.96e-6	54.941	10.23	1919.0	172.7
0.1	2	MinNorm	2.259	9.963e-3	2.269	2.269	293	34.00e-6	54.237	8.419	1917.0	91.85
		MinVolume	2.259	9.081e-3	2.268	2.268	315	28.83e-6	54.264	7.673	1916.1	98.75
		ApproxMinVolume	2.260	10.79e-3	2.270	2.270	317	34.02e-6	54.264	9.113	1918.0	99.37
		Recursive	1.511	6.837e-3	1.518	1.518	343	19.93e-6	54.227	5.777	1282.5	107.5
		Recursive2	1.528	11.09e-3	1.539	1.539	305	36.36e-6	54.227	9.372	1300.0	95.61
		Interval	28.13e-6	300.6e-3	300.6e-3	0.301	37029	8.117e-6	65.393	100.0	100.0	100.0
0.1	3	Bernstein	3.311	198.3e-3	3.509	3.509	15969	12.42e-6	65.347	65.99	1167.3	43.13
		MinVariance	4.638	281.2e-3	4.919	4.919	20523	13.70e-6	65.380	93.57	1636.4	55.42
		BSplines	3.540	1.013	4.553	4.553	77799	13.02e-6	66.153	337.1	1514.8	210.1
		MinNorm	4.511	224.6e-3	4.735	4.735	17195	13.06e-6	65.365	74.73	1575.3	46.44
	4	MinVolume	3.933	306.6e-3	4.240	4.240	23489	13.05e-6	65.411	102.0	1410.5	63.43
		ApproxMinVolume	3.942	301.3e-3	4.243	4.243	23553	12.79e-6	65.412	100.2	1411.5	63.61
		Recursive	3.756	239.8e-3	3.996	3.996	18879	12.70e-6	65.347	79.77	1329.4	50.98
		Recursive2	4.326	209.6e-3	4.536	4.536	16733	12.53e-6	65.347	69.74	1508.9	45.19
0.1	5	Interval	30.99e-6	71.99	71.99	01:11	7423905	9.697e-6	58.169	100.0	100.0	100.0
		Bernstein	11.59	37.99	49.58	49.583	1309339	29.01e-6	56.938	52.77	68.88	17.64
		MinVariance	15.47	53.44	68.91	01:08	1607239	33.25e-6	57.038	74.23	95.73	21.65
		BSplines	12.01	268.4	280.4	04:40	9116619	29.44e-6	58.127	372.8	389.5	122.8
		MinNorm	14.94	47.42	62.37	01:02	1453903	32.62e-6	56.978	65.88	86.63	19.58
		MinVolume	13.30	62.51	75.81	01:15	1984227	31.50e-6	57.123	86.83	105.3	26.73
	5	ApproxMinVolume	13.04	58.06	71.10	01:11	1994227	29.11e-6	57.124	80.65	98.77	26.86
		Recursive	15.90	49.92	65.82	01:05	1600277	31.20e-6	56.938	69.35	91.43	21.56
		Recursive2	15.69	54.47	70.16	01:10	1777477	30.65e-6	56.938	75.67	97.47	23.94
		Interval	21.93e-6	48486	48486	13:28:06	4326690579	11.21e-6	66.175	100.0	100.0	100.0
0.1	3	Bernstein	96.22	19798	19894	05:31:34	379042839	52.23e-6	64.526	40.83	41.03	8.761
		MinVariance	101.0	27574	27675	07:41:15	511592157	53.90e-6	64.680	56.87	57.08	11.82
		BSplines	96.91	251431	251431	2-21:50:31	4816801329	52.20e-6	66.278	518.6	518.6	111.3
		MinNorm	100.5	23435	23536	06:32:16	447578831	52.36e-6	64.623	48.33	48.54	10.34
	4	MinVolume	100.9	34848	34949	09:42:29	661782405	52.66e-6	64.786	71.87	72.08	15.30
		ApproxMinVolume	100.1	35079	35179	09:46:19	666118385	52.66e-6	64.791	72.35	72.56	15.40
		Recursive	98.30	30142	30240	08:24:00	573913681	52.52e-6	64.526	62.17	62.37	13.26
		Recursive2	98.30	26723	26821	07:27:01	509400055	52.46e-6	64.526	55.12	55.32	11.77

Table 28: Bisection of problem 2D with problem: 18, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	24.80e-6	2.949e-3	2.974e-3	0.003	107	27.56e-6	infeasible	100.0	100.0	100.0
		Bernstein	844.5e-3	3.240e-3	847.7e-3	0.848	69	46.95e-6	infeasible	109.9	28506.9	64.49
		MinVariance	921.0e-3	3.297e-3	924.4e-3	0.924	63	52.33e-6	infeasible	111.8	31083.6	58.88
		BSplines	863.1e-3	3.352e-3	866.5e-3	0.866	113	29.66e-6	infeasible	113.7	29136.8	105.6
		MinNorm	890.3e-3	3.116e-3	893.4e-3	0.893	61	51.08e-6	infeasible	105.7	30043.7	57.01
	3	MinVolume	887.2e-3	3.367e-3	890.6e-3	0.891	69	48.80e-6	infeasible	114.2	29949.3	64.49
		ApproxMinVolume	898.6e-3	3.656e-3	902.2e-3	0.902	69	52.99e-6	infeasible	124.0	30339.1	64.49
		Recursive	871.1e-3	3.538e-3	874.7e-3	0.875	93	38.04e-6	infeasible	120.0	29412.7	86.92
		Recursive2	868.9e-3	3.443e-3	872.3e-3	0.872	123	27.99e-6	infeasible	116.8	29333.3	115.0
		Interval	28.85e-6	187.3e-3	187.4e-3	0.187	24121	7.766e-6	44.363	100.0	100.0	100.0
0.01	4	Bernstein	3.377	183.4e-3	3.561	3.561	14567	12.59e-6	44.358	97.91	1900.6	60.39
		MinVariance	4.682	240.1e-3	4.922	4.922	17985	13.35e-6	44.363	128.2	2627.0	74.56
		BSplines	3.611	804.4e-3	4.415	4.415	62615	12.85e-6	44.451	429.4	2356.5	259.6
		MinNorm	4.521	221.0e-3	4.742	4.742	16537	13.36e-6	44.361	118.0	2530.9	68.56
		MinVolume	3.964	259.2e-3	4.223	4.223	20147	12.87e-6	44.367	138.4	2254.0	83.52
	5	ApproxMinVolume	3.948	258.8e-3	4.207	4.207	20169	12.83e-6	44.367	138.2	2245.2	83.62
		Recursive	3.857	203.6e-3	4.061	4.061	15657	13.01e-6	44.358	108.7	2167.4	64.91
		Recursive2	4.357	211.8e-3	4.569	4.569	15263	13.88e-6	44.358	113.1	2438.5	63.28
		Interval	33.14e-6	125.8	125.8	0.025	12487643	10.08e-6	33.203	100.0	100.0	100.0
		Bernstein	11.52	83.61	95.13	01:35	2909445	28.74e-6	33.151	66.45	75.60	23.30
0.1	3	MinVariance	15.26	118.6	133.9	02:13	3640013	32.59e-6	33.159	94.29	106.4	29.15
		BSplines	11.95	710.5	722.4	12:02	23725501	29.95e-6	33.250	564.6	574.1	190.0
		MinNorm	14.75	104.0	118.8	01:58	3257791	31.94e-6	33.157	82.69	94.41	26.09
		MinVolume	13.20	135.6	148.8	02:28	4378325	30.98e-6	33.166	107.8	118.3	35.06
		ApproxMinVolume	13.17	139.2	152.4	02:32	4397095	31.67e-6	33.166	110.7	121.1	35.21
	4	Recursive	15.77	94.13	109.9	01:49	3000175	31.38e-6	33.151	74.81	87.35	24.03
		Recursive2	15.72	98.94	114.7	01:54	3124127	31.67e-6	33.151	78.63	91.13	25.02
		Interval	28.00e-6	1045140	1045140	12-02:19:00	94516209791	11.06e-6	31.568	100.0	100.0	100.0
		Bernstein	73.83	944369	944369	10-22:19:29	18658199295	50.61e-6	31.442	90.36	90.36	19.74
		MinVariance	77.42	1271750	1271750	14-17:15:50	24701965489	51.48e-6	31.458	121.7	121.7	26.14
0.2	2	BSplines	73.23	in progress	> 60 days							
		MinNorm	77.14	1094150	1094150	12-15:55:50	21589134760	50.68e-6	31.450	104.7	104.7	22.84
		MinVolume	76.04	1570110	1570110	18-04:08:30	31298536437	50.17e-6	31.472	150.2	150.2	33.11
		ApproxMinVolume	75.01	1606110	1606110	18-14:08:30	31905223190	50.34e-6	31.472	153.7	153.7	33.76
		Recursive	73.90	979910	979910	11-08:11:50	19445423662	50.39e-6	31.442	93.76	93.76	20.57
	3	Recursive2	74.11	969590	969590	11-05:19:50	19233961860	50.41e-6	31.442	92.77	92.77	20.35
		Interval	30.04e-6	3.183e-3	3.213e-3	0.003	107	29.75e-6	infeasible	100.0	100.0	100.0
		Bernstein	1.759	7.856e-3	1.766	1.766	69	113.9e-6	infeasible	246.8	54976.2	64.49
		MinVariance	910.2e-3	3.359e-3	913.6e-3	0.914	63	53.32e-6	infeasible	105.5	28431.7	58.88
		BSplines	963.6e-3	4.206e-3	967.9e-3	0.968	113	37.70e-6	infeasible	133.8	30121.5	105.6
0.3	4	MinNorm	962.7e-3	3.566e-3	966.3e-3	0.966	61	58.46e-6	infeasible	112.0	30072.7	57.01
		MinVolume	963.7e-3	3.084e-3	966.8e-3	0.967	69	44.69e-6	infeasible	96.88	30087.2	64.49
		ApproxMinVolume	963.2e-3	4.672e-3	967.9e-3	0.968	69	67.71e-6	infeasible	146.8	30121.5	64.49
		Recursive	876.3e-3	3.437e-3	879.7e-3	0.880	93	36.96e-6	infeasible	108.0	27379.3	86.92
		Recursive2	862.2e-3	4.339e-3	866.5e-3	0.867	123	35.28e-6	infeasible	136.3	26968.3	115.0
	5	Interval	28.85e-6	66.38e-3	66.41e-3	0.066	7721	8.597e-6	45.695	100.0	100.0	100.0
		Bernstein	3.243	56.15e-3	3.299	4.215	13.32e-6	45.365	84.59	4968.4	54.59	
		MinVariance	4.470	68.52e-3	4.539	4.539	5055	13.56e-6	45.400	103.2	6834.8	65.47
		BSplines	3.569	210.7e-3	3.780	3.780	16815	12.53e-6	46.398	317.4	5692.2	217.8
		MinNorm	4.539	64.92e-3	4.604	4.604	4647	13.97e-6	45.384	97.80	6933.0	60.19
0.4	3	MinVolume	3.916	74.91e-3	3.990	3.990	5761	13.00e-6	45.434	112.9	6009.1	74.61
		ApproxMinVolume	3.952	75.91e-3	4.028	4.028	5775	13.14e-6	45.435	114.4	6065.3	74.80
		Recursive	3.873	68.35e-3	3.941	3.941	5339	12.80e-6	45.365	103.0	5934.8	69.15
		Recursive2	4.315	66.46e-3	4.382	4.382	4937	13.46e-6	45.365	100.1	6598.6	63.94
		Interval	41.96e-6	25.03	25.03	25.028	2461753	10.17e-6	34.408	100.0	100.0	100.0
	4	Bernstein	12.10	16.73	28.83	28.827	573025	29.19e-6	33.973	66.83	115.2	23.28
		MinVariance	17.31	23.00	40.31	40.309	696239	33.03e-6	34.010	91.89	161.1	28.28
		BSplines	12.63	126.3	139.0	02:18	4120163	30.66e-6	34.818	504.7	555.2	167.4
		MinNorm	16.63	20.54	37.17	37.166	636021	32.29e-6	33.994	82.05	148.5	25.84
		MinVolume	14.15	26.00	40.16	40.156	830483	31.31e-6	34.071	103.9	160.4	33.74
0.5	2	ApproxMinVolume	13.88	26.12	39.99	39.992	833749	31.32e-6	34.072	104.3	159.8	33.87
		Recursive	16.80	20.05	36.85	36.855	647213	30.98e-6	33.973	80.12	147.3	26.29
		Recursive2	16.76	23.63	40.39	40.392	779105	30.34e-6	33.973	94.43	161.4	31.65
		Interval	30.04e-6	14006	14006	03:53:26	1298250205	10.79e-6	33.874	100.0	100.0	100.0
		Bernstein	98.48	19352	19451	05:24:11	361891811	53.48e-6	32.826	138.2	138.9	27.88
	3	MinVariance	102.3	24046	24148	06:42:28	445532669	53.97e-6	32.947	171.7	172.4	34.32
		BSplines	98.03	133692	133692	1-13:08:12	2581066328	51.80e-6	34.374	954.5	954.5	198.8
		MinNorm	101.6	21640	21742	06:02:22	405310033	53.39e-6	32.900	154.5	155.2	31.22
		MinVolume	99.63	28653	28752	07:59:12	538340345	53.22e-6	33.059	204.6	205.3	41.47
		ApproxMinVolume	99.50	29080	29179	08:06:19	540465171	53.81e-6	33.061	207.6	208.3	41.63
	4	Recursive	97.29	23523	23620	06:33:40	447194067	52.60e-6	32.826	167.9	168.6	34.45
		Recursive2	97.12	22104	22201	06:10:01	417961065	52.89e-6	32.826	157.8	158.5	32.19

Table 29: Bissection of problem 2D with problem: 19, type: MinFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	26.94e-6	6.502e-3	6.529e-3	0.007	697	9.328e-6	955.68e-3	100.0	100.0	100.0
		Bernstein	724.1e-3	4.147e-3	728.3e-3	0.728	333	12.45e-6	951.92e-3	63.78	11154.8	47.78
		MinVariance	742.3e-3	3.714e-3	746.0e-3	0.746	337	11.02e-6	952.00e-3	57.12	11426.6	48.35
		BSplines	726.7e-3	4.992e-3	731.7e-3	0.732	469	10.64e-6	952.86e-3	76.78	11207.0	67.29
		MinNorm	743.4e-3	3.761e-3	747.2e-3	0.747	333	11.29e-6	951.96e-3	57.85	11444.7	47.78
		MinVolume	726.5e-3	4.425e-3	730.9e-3	0.731	349	12.68e-6	952.07e-3	68.06	11195.4	50.07
		ApproxMinVolume	736.0e-3	3.765e-3	739.8e-3	0.740	351	10.73e-6	952.07e-3	57.91	11330.8	50.36
		Recursive	718.3e-3	3.854e-3	722.1e-3	0.722	335	11.50e-6	951.92e-3	59.28	11060.8	48.06
		Recursive2	718.6e-3	3.771e-3	722.4e-3	0.722	337	11.19e-6	951.92e-3	58.00	11065.1	48.35
	3	Interval	31.95e-6	1.091	1.091	1.091	158835	6.869e-6	656.18e-3	100.0	100.0	100.0
		Bernstein	1.225	249.9e-3	1.474	1.474	46343	5.392e-6	653.31e-3	22.90	135.1	29.18
		MinVariance	1.391	273.4e-3	1.665	1.665	48519	5.634e-6	653.39e-3	25.06	152.6	30.55
		BSplines	1.230	383.3e-3	1.613	1.613	78885	4.859e-6	654.29e-3	35.13	147.9	49.66
		MinNorm	1.380	261.7e-3	1.642	1.642	47471	5.513e-6	653.35e-3	23.99	150.5	29.89
		MinVolume	1.311	274.6e-3	1.585	1.585	50725	5.414e-6	653.46e-3	25.17	145.3	31.94
		ApproxMinVolume	1.279	262.8e-3	1.542	1.542	50805	5.172e-6	653.46e-3	24.09	141.3	31.99
		Recursive	1.233	251.9e-3	1.485	1.485	46807	5.382e-6	653.31e-3	23.09	136.1	29.47
		Recursive2	1.221	252.1e-3	1.473	1.473	46685	5.401e-6	653.31e-3	23.11	135.0	29.39
0.01	4	Interval	30.04e-6	151.1	151.1	02:31	18306999	8.254e-6	546.04e-3	100.0	100.0	100.0
		Bernstein	3.864	56.02	59.89	59.886	4338387	12.91e-6	543.02e-3	37.08	39.63	23.70
		MinVariance	4.801	63.00	67.80	01:07	4594645	13.71e-6	543.10e-3	41.69	44.87	25.10
		BSplines	3.878	100.2	104.1	01:44	8350851	12.00e-6	544.03e-3	66.34	68.91	45.62
		MinNorm	4.603	62.33	66.93	01:06	4475875	13.93e-6	543.06e-3	41.25	44.30	24.45
		MinVolume	4.147	63.09	67.24	01:07	4845057	13.02e-6	543.17e-3	41.75	44.50	26.47
		ApproxMinVolume	4.345	64.51	68.85	01:08	4851817	13.30e-6	543.18e-3	42.69	45.57	26.50
		Recursive	3.943	56.22	60.16	01:00	4356289	12.91e-6	543.02e-3	37.21	39.81	23.80
		Recursive2	3.905	56.02	59.92	59.923	4345647	12.89e-6	543.02e-3	37.07	39.66	23.74
	5	Interval	28.13e-6	26809	26809	07:26:49	2148335555	12.48e-6	463.96e-3	100.0	100.0	100.0
		Bernstein	57.35	17105	17162	04:46:02	486354955	35.17e-6	461.15e-3	63.80	64.02	22.64
		MinVariance	60.66	18672	18733	05:12:13	516339805	36.16e-6	461.22e-3	69.65	69.88	24.03
		BSplines	57.61	31120	31178	08:39:38	969173347	32.11e-6	462.14e-3	116.1	116.3	45.11
		MinNorm	60.20	18592	18653	05:10:53	502490929	37.00e-6	461.19e-3	69.35	69.58	23.39
		MinVolume	57.73	18979	19036	05:17:16	546007229	34.76e-6	461.30e-3	70.79	71.01	25.42
		ApproxMinVolume	59.83	19918	19978	05:32:58	546781515	36.43e-6	461.30e-3	74.29	74.52	25.45
		Recursive	57.67	17142	17200	04:46:40	487594105	35.16e-6	461.15e-3	63.94	64.16	22.70
		Recursive2	57.36	17053	17110	04:45:10	486650021	35.04e-6	461.15e-3	63.61	63.82	22.65
0.01	2	Interval	39.82e-6	8.453e-3	8.493e-3	0.008	1129	7.487e-6	1.1075	100.0	100.0	100.0
		Bernstein	723.1e-3	5.982e-3	729.1e-3	0.729	663	9.023e-6	1.0801	70.77	8585.2	58.72
		MinVariance	742.4e-3	4.533e-3	747.0e-3	0.747	697	6.504e-6	1.0808	53.63	8795.2	61.74
		BSplines	738.6e-3	5.618e-3	744.2e-3	0.744	839	6.696e-6	1.0884	66.46	8763.0	74.31
		MinNorm	787.2e-3	4.945e-3	792.1e-3	0.792	673	7.347e-6	1.0804	58.50	9327.1	59.61
		MinVolume	706.9e-3	7.290e-3	714.2e-3	0.714	713	10.22e-6	1.0814	86.24	8409.1	63.15
		ApproxMinVolume	1.338	15.86e-3	1.354	1.354	713	22.24e-6	1.0814	187.6	15938.4	63.15
		Recursive	1.948	12.24e-3	1.960	1.960	669	18.30e-6	1.0801	144.9	23082.2	59.26
		Recursive2	1.938	4.633e-3	1.942	1.942	675	6.864e-6	1.0801	54.81	22870.1	59.79
	3	Interval	27.89e-6	295.8e-3	295.8e-3	0.296	41831	7.072e-6	708.82e-3	100.0	100.0	100.0
		Bernstein	1.237	90.32e-3	1.328	1.328	15029	6.010e-6	684.89e-3	30.53	448.8	35.93
		MinVariance	1.380	95.55e-3	1.476	1.476	15753	6.065e-6	685.53e-3	32.30	498.9	37.66
		BSplines	1.238	127.7e-3	1.366	1.366	23709	5.387e-6	692.89e-3	43.18	461.6	56.68
		MinNorm	1.358	94.46e-3	1.453	1.453	15455	6.112e-6	685.24e-3	31.93	491.1	36.95
		MinVolume	1.300	96.66e-3	1.397	1.397	16319	5.923e-6	686.12e-3	32.67	472.2	39.01
		ApproxMinVolume	1.314	96.12e-3	1.410	1.410	16329	5.886e-6	686.14e-3	32.49	476.7	39.04
		Recursive	1.232	93.29e-3	1.326	1.326	15501	6.018e-6	684.89e-3	31.54	448.1	37.06
		Recursive2	1.243	92.83e-3	1.335	1.335	15363	6.043e-6	684.89e-3	31.38	451.4	36.73
0.01	4	Interval	28.85e-6	18.54	18.54	18.537	2243403	8.263e-6	600.02e-3	100.0	100.0	100.0
		Bernstein	4.177	7.392	11.57	11.569	555975	13.30e-6	574.62e-3	39.88	62.41	24.78
		MinVariance	4.973	8.355	13.33	13.329	586589	14.24e-6	575.28e-3	45.07	71.90	26.15
		BSplines	4.166	12.47	16.64	16.635	1026213	12.15e-6	582.96e-3	67.27	89.74	45.74
		MinNorm	4.768	8.053	12.82	12.821	572389	14.07e-6	574.98e-3	43.45	69.17	25.51
		MinVolume	4.274	8.332	12.61	12.606	616473	13.52e-6	575.90e-3	44.95	68.00	27.48
		ApproxMinVolume	4.434	8.308	12.74	12.742	617395	13.46e-6	575.91e-3	44.82	68.74	27.52
		Recursive	4.087	7.352	11.44	11.439	568277	12.94e-6	574.62e-3	39.66	61.71	25.33
		Recursive2	3.905	7.278	11.18	11.183	562573	12.94e-6	574.62e-3	39.26	60.33	25.08
	5	Interval	36.95e-6	1124	1124	18:44	112981657	9.953e-6	518.93e-3	100.0	100.0	100.0
		Bernstein	75.78	804.5	880.2	14:40	22820037	35.25e-6	494.87e-3	71.54	78.28	20.20
		MinVariance	80.00	879.4	959.4	15:59	24290253	36.20e-6	495.51e-3	78.20	85.32	21.50
		BSplines	78.24	1503	1581	26:21	47132137	31.90e-6	503.11e-3	133.7	140.6	41.72
		MinNorm	80.05	870.3	950.3	15:50	23608125	36.86e-6	495.22e-3	77.39	84.51	20.90
		MinVolume	78.64	920.0	998.6	16:38	25768687	35.70e-6	496.13e-3	81.81	88.80	22.81
		ApproxMinVolume	78.94	915.4	994.3	16:34	25806787	35.47e-6	496.14e-3	81.40	88.42	22.84
		Recursive	77.90	819.5	897.4	14:57	23271949	35.21e-6	494.87e-3	72.87	79.80	20.60
		Recursive2	76.76	814.2	890.9	14:50	22992939	35.41e-6	494.87e-3	72.40	79.23	20.35

Table 30: Bisection of problem 2D with problem: 1, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	22.44e-3	22.47e-3	0.022	3437	6.528e-6	2.7090	100.0	100.0	100.0
		Bernstein	726.9e-3	7.064e-3	733.9e-3	0.734	2105	3.356e-6	2.7057	31.48	3266.5	61.25
		MinVariance	735.1e-3	8.066e-3	743.2e-3	0.743	2127	3.792e-6	2.7058	35.95	3307.7	61.89
		BSplines	726.1e-3	8.993e-3	735.1e-3	0.735	2937	3.062e-6	2.7073	40.08	3271.6	85.45
		MinNorm	737.3e-3	7.605e-3	744.9e-3	0.745	2115	3.596e-6	2.7057	33.89	3315.1	61.54
	3	MinVolume	691.8e-3	7.954e-3	699.7e-3	0.700	2197	3.620e-6	2.7059	35.45	3114.3	63.92
		ApproxMinVolume	679.1e-3	7.757e-3	686.8e-3	0.687	2199	3.527e-6	2.7059	34.57	3056.9	63.98
		Recursive	716.3e-3	7.435e-3	723.8e-3	0.724	2105	3.532e-6	2.7057	33.14	3221.2	61.25
		Recursive2	731.9e-3	7.761e-3	739.7e-3	0.740	2105	3.687e-6	2.7057	34.59	3291.9	61.25
		Interval	24.08e-6	2.508	2.508	2.508	377955	6.635e-6	2.4369	100.0	100.0	100.0
0.01	4	Bernstein	1.227	318.4e-3	1.545	1.545	58309	5.461e-6	2.4310	12.70	61.61	15.43
		MinVariance	1.368	344.6e-3	1.713	1.713	62051	5.554e-6	2.4312	13.74	68.31	16.42
		BSplines	1.241	565.0e-3	1.806	1.806	119017	4.747e-6	2.4329	22.53	72.03	31.49
		MinNorm	1.356	335.1e-3	1.691	1.691	60353	5.552e-6	2.4311	13.36	67.42	15.97
		MinVolume	1.291	354.8e-3	1.646	1.646	65687	5.402e-6	2.4313	14.15	65.63	17.38
	5	ApproxMinVolume	1.293	356.7e-3	1.650	1.650	65769	5.423e-6	2.4313	14.22	65.79	17.40
		Recursive	1.236	313.8e-3	1.550	1.550	58423	5.371e-6	2.4310	12.51	61.79	15.46
		Recursive2	1.228	319.6e-3	1.548	1.548	58599	5.454e-6	2.4310	12.74	61.71	15.50
		Interval	32.19e-6	145.1	145.1	02:25	17924341	8.095e-6	1.2775	100.0	100.0	100.0
		Bernstein	3.962	55.99	59.95	59.951	4313803	12.98e-6	1.2731	38.59	41.32	24.07
0.05	3	MinVariance	4.743	62.23	66.97	01:06	4575395	13.60e-6	1.2732	42.89	46.16	25.53
		BSplines	3.856	101.2	105.0	01:45	8399807	12.04e-6	1.2746	69.71	72.37	46.86
		MinNorm	4.648	61.67	66.32	01:06	4454545	13.84e-6	1.2731	42.50	45.70	24.85
		MinVolume	4.143	62.68	66.83	01:06	4831085	12.97e-6	1.2733	43.20	46.06	26.95
		ApproxMinVolume	4.340	64.88	69.22	01:09	4837801	13.41e-6	1.2733	44.72	47.71	26.99
	4	Recursive	3.899	55.44	59.34	59.338	4326613	12.81e-6	1.2731	38.21	40.90	24.14
		Recursive2	3.907	55.89	59.79	59.794	4318511	12.94e-6	1.2731	38.52	41.21	24.09
		Interval	24.80e-6	39602	39602	11:00:02	4235700059	9.350e-6	1.0796	100.0	100.0	100.0
		Bernstein	57.95	335351	35409	09:50:09	1000320153	35.34e-6	1.0754	89.27	89.41	23.62
		MinVariance	60.42	38665	38726	10:45:26	1062949643	36.38e-6	1.0755	97.63	97.79	25.10
0.1	2	BSplines	57.69	64033	64091	17:48:11	2005406867	31.93e-6	1.0770	161.7	161.8	47.35
		MinNorm	60.37	38206	38266	10:37:46	1034016309	36.95e-6	1.0755	96.47	96.63	24.41
		MinVolume	57.98	40409	40467	11:14:27	1124851465	35.92e-6	1.0757	102.0	102.2	26.56
		ApproxMinVolume	59.65	40968	41028	11:23:48	1126470329	36.37e-6	1.0757	103.4	103.6	26.59
		Recursive	57.82	35812	35870	09:57:50	1001917277	35.74e-6	1.0754	90.43	90.57	23.65
	3	Recursive2	57.23	35140	35197	09:46:37	1000589595	35.12e-6	1.0754	88.73	88.88	23.62
		Interval	29.09e-6	7.499e-3	7.528e-3	0.008	595	12.60e-6	2.7694	100.0	100.0	100.0
		Bernstein	727.2e-3	5.751e-3	733.0e-3	0.733	385	14.94e-6	2.7381	76.69	9737.0	64.71
		MinVariance	746.2e-3	5.278e-3	751.5e-3	0.752	385	13.71e-6	2.7392	70.38	9983.2	64.71
		BSplines	739.8e-3	4.830e-3	744.6e-3	0.745	481	10.04e-6	2.7517	64.41	9891.3	80.84
0.2	4	MinNorm	728.6e-3	4.044e-3	732.7e-3	0.733	385	10.50e-6	2.7387	53.93	9732.7	64.71
		MinVolume	715.0e-3	3.638e-3	718.7e-3	0.719	397	9.164e-6	2.7402	48.51	9546.9	66.72
		ApproxMinVolume	721.4e-3	4.699e-3	726.1e-3	0.726	397	11.84e-6	2.7402	62.66	9645.3	66.72
		Recursive	721.2e-3	4.713e-3	726.0e-3	0.726	385	12.24e-6	2.7381	62.85	9643.4	64.71
		Recursive2	1.859	6.230e-3	1.865	1.865	385	16.18e-6	2.7381	83.08	24772.8	64.71
	5	Interval	30.04e-6	776.9e-3	776.9e-3	0.777	114217	6.802e-6	2.5140	100.0	100.0	100.0
		Bernstein	1.231	174.8e-3	1.405	1.405	29605	5.905e-6	2.4634	22.50	180.9	25.92
		MinVariance	1.365	186.7e-3	1.551	1.551	30991	6.023e-6	2.4646	24.03	199.7	27.13
		BSplines	1.244	256.1e-3	1.500	1.500	49255	5.200e-6	2.4783	32.97	193.1	43.12
		MinNorm	1.348	182.0e-3	1.530	1.530	30395	5.989e-6	2.4641	23.43	196.9	26.61
0.3	3	MinVolume	1.282	180.0e-3	1.462	1.462	32407	5.553e-6	2.4657	23.16	188.1	28.37
		ApproxMinVolume	1.275	180.3e-3	1.455	1.455	32451	5.557e-6	2.4658	23.21	187.3	28.41
		Recursive	1.253	172.1e-3	1.426	1.426	29749	5.784e-6	2.4634	22.15	183.5	26.05
		Recursive2	1.179	171.6e-3	1.350	1.350	29875	5.743e-6	2.4634	22.09	173.8	26.16
		Interval	25.99e-6	18.75	18.75	18.747	2316545	8.093e-6	1.3554	100.0	100.0	100.0
	4	Bernstein	3.916	7.760	11.68	11.676	580431	13.37e-6	1.3191	41.39	62.28	25.06
		MinVariance	4.773	8.900	13.67	13.673	615347	14.46e-6	1.3201	47.47	72.93	26.56
		BSplines	3.890	13.86	17.75	17.752	1122977	12.34e-6	1.3315	73.95	94.69	48.48
		MinNorm	4.678	8.521	13.20	13.200	599129	14.22e-6	1.3196	45.45	70.41	25.86
		MinVolume	4.203	8.759	12.96	12.962	649691	13.48e-6	1.3210	46.72	69.14	28.05
0.4	2	ApproxMinVolume	4.348	9.009	13.36	13.357	650613	13.85e-6	1.3211	48.06	71.25	28.09
		Recursive	3.947	7.855	11.80	11.802	590493	13.30e-6	1.3191	41.90	62.95	25.49
		Recursive2	3.848	7.845	11.69	11.693	584473	13.42e-6	1.3191	41.85	62.37	25.23
		Interval	33.86e-6	1563	1563	26.03	169306809	9.235e-6	1.1612	100.0	100.0	100.0
		Bernstein	77.88	1382	1460	24:20	39202437	35.27e-6	1.1267	88.42	93.40	23.15
	3	MinVariance	80.85	1524	1605	26:45	41681105	36.58e-6	1.1277	97.50	102.7	24.62
		BSplines	78.12	2577	2655	44:15	79703737	32.34e-6	1.1391	164.8	169.8	47.08
		MinNorm	80.70	1505	1585	26:25	40530951	37.14e-6	1.1272	96.27	101.4	23.94
		MinVolume	78.52	1581	1660	27:40	44167813	35.81e-6	1.1286	101.2	106.2	26.09
		ApproxMinVolume	79.57	1591	1671	27:51	44233293	35.98e-6	1.1286	101.8	106.9	26.13
0.5	4	Recursive	78.30	1406	1485	24:45	39735983	35.41e-6	1.1267	89.99	95.00	23.47
		Recursive2	76.80	1379	1456	24:16	39364189	35.05e-6	1.1267	88.25	93.16	23.25
		Interval	33.86e-6	1563	1563	26.03	169306809	9.235e-6	1.1612	100.0	100.0	100.0
		Bernstein	77.88	1382	1460	24:20	39202437	35.27e-6	1.1267	88.42	93.40	23.15
		MinVariance	80.85	1524	1605	26:45	41681105	36.58e-6	1.1277	97.50	102.7	24.62
	5	BSplines	78.12	2577	2655	44:15	79703737	32.34e-6	1.1391	164.8	169.8	47.08
		MinNorm	80.70	1505	1585	26:25	40530951	37.14e-6	1.1272	96.27	101.4	23.94
		MinVolume	78.52	1581	1660	27:40	44167813	35.8				

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	25.99e-6	5.971e-3	5.997e-3	0.006	59	101.2e-6	infeasible	100.0	100.0	100.0
		Bernstein	717.0e-3	3.075e-3	720.1e-3	0.720	41	75.00e-6	infeasible	51.50	12007.6	69.49
		MinVariance	737.6e-3	2.683e-3	740.3e-3	0.740	41	65.44e-6	infeasible	44.94	12345.2	69.49
		BSplines	710.8e-3	2.867e-3	713.7e-3	0.714	41	69.93e-6	infeasible	48.02	11901.4	69.49
		MinNorm	736.2e-3	3.316e-3	739.5e-3	0.740	41	80.88e-6	infeasible	55.53	12331.8	69.49
		MinVolume	734.9e-3	3.071e-3	738.0e-3	0.738	41	74.90e-6	infeasible	51.43	12306.3	69.49
		ApproxMinVolume	730.2e-3	3.091e-3	733.3e-3	0.733	41	75.39e-6	infeasible	51.76	12228.7	69.49
		Recursive	714.5e-3	3.139e-3	717.6e-3	0.718	41	76.56e-6	infeasible	52.57	11966.8	69.49
	3	Recursive2	715.7e-3	3.297e-3	719.0e-3	0.719	41	80.42e-6	infeasible	55.22	11990.0	69.49
		Interval	30.99e-6	2.188	2.188	313367	6.982e-6	3.9157	100.0	100.0	100.0	100.0
0.005	4	Bernstein	1.218	379.4e-3	1.597	82899	4.576e-6	3.9108	17.34	73.00	26.45	
		MinVariance	1.377	417.7e-3	1.795	88733	4.707e-6	3.9110	19.09	82.02	28.32	
		BSplines	1.211	697.7e-3	1.909	176409	3.955e-6	3.9131	31.89	87.24	56.29	
		MinNorm	1.362	408.8e-3	1.771	86059	4.751e-6	3.9109	18.69	80.95	27.46	
		MinVolume	1.296	437.4e-3	1.733	94919	4.608e-6	3.9111	19.99	79.20	30.29	
		ApproxMinVolume	1.300	434.4e-3	1.734	95081	4.569e-6	3.9111	19.85	79.27	30.34	
		Recursive	1.212	365.0e-3	1.577	82929	4.401e-6	3.9108	16.68	72.07	26.46	
		Recursive2	1.238	405.4e-3	1.644	83039	4.882e-6	3.9108	18.53	75.13	26.50	
	5	Interval	25.03e-6	1812	1812	30:12	291356227	7.834e-6	2.2271	100.0	100.0	100.0
		Bernstein	3.893	297.4	301.3	05:01	21479813	13.85e-6	2.2173	16.41	16.62	9.284
0.01	2	MinVariance	4.768	320.2	325.0	05:24	21954871	14.58e-6	2.2174	17.67	17.93	9.490
		BSplines	3.853	386.6	390.4	06:30	28325867	13.65e-6	2.2193	21.33	21.54	12.24
		MinNorm	4.647	316.8	321.4	05:21	21736085	14.57e-6	2.2174	17.48	17.73	9.395
		MinVolume	4.125	313.5	317.6	05:17	22416747	13.98e-6	2.2176	17.29	17.52	9.689
		ApproxMinVolume	4.329	312.5	316.8	05:16	22428769	13.93e-6	2.2176	17.24	17.48	9.694
		Recursive	3.937	295.8	299.7	04:59	21492065	13.76e-6	2.2173	16.32	16.54	9.290
		Recursive2	3.980	303.0	307.0	05:06	21482741	14.10e-6	2.2173	16.72	16.94	9.286
		Interval	34.81e-6	46069	46069	12:47:49	4972603415	9.265e-6	1.4911	100.0	100.0	100.0
	3	Bernstein	57.13	37266	37323	10:22:03	1066577287	34.94e-6	1.4862	80.89	81.02	21.45
		MinVariance	60.78	41916	41977	11:39:37	1139403783	36.79e-6	1.4864	90.99	91.12	22.91
0.05	4	BSplines	57.72	71885	71942	19:59:02	2264727657	31.74e-6	1.4881	156.0	156.2	45.54
		MinNorm	60.30	40410	40471	11:14:31	1105702391	36.55e-6	1.4863	87.72	87.85	22.24
		MinVolume	57.90	42365	42423	11:47:03	1211712153	34.96e-6	1.4865	91.96	92.09	24.37
		ApproxMinVolume	58.14	42521	42579	11:49:39	1213605091	35.04e-6	1.4865	92.30	92.43	24.41
		Recursive	57.78	37954	38012	10:33:32	1068223403	35.53e-6	1.4862	82.39	82.51	21.48
		Recursive2	57.45	37597	37655	10:27:35	1066834617	35.24e-6	1.4862	81.61	81.74	21.45
		Interval	29.09e-6	2.660e-3	2.689e-3	0.003	59	2.09e-6	infeasible	100.0	100.0	100.0
		Bernstein	668.8e-3	3.555e-3	672.4e-3	0.672	41	86.70e-6	infeasible	133.6	25003.5	69.49
	5	MinVariance	687.3e-3	3.287e-3	690.6e-3	0.691	41	80.17e-6	infeasible	123.6	25681.2	69.49
		BSplines	786.1e-3	2.898e-3	789.0e-3	0.789	41	70.68e-6	infeasible	108.9	29339.6	69.49
0.1	2	MinNorm	685.9e-3	3.220e-3	689.1e-3	0.689	41	78.54e-6	infeasible	121.1	25625.0	69.49
		MinVolume	723.9e-3	3.192e-3	727.2e-3	0.727	41	77.86e-6	infeasible	120.0	27040.5	69.49
		ApproxMinVolume	733.4e-3	2.962e-3	736.3e-3	0.736	41	72.25e-6	infeasible	111.4	27382.5	69.49
		Recursive	715.4e-3	2.843e-3	718.3e-3	0.718	41	69.34e-6	infeasible	106.9	26709.7	69.49
		Recursive2	709.1e-3	3.292e-3	712.4e-3	0.712	41	80.29e-6	infeasible	123.8	26491.0	69.49
		Interval	27.18e-6	287.6e-3	287.6e-3	0.288	40777	7.053e-6	3.9989	100.0	100.0	100.0
		Bernstein	1.236	65.55e-3	1.301	1.301	11979	5.472e-6	3.9588	22.79	452.3	29.38
		MinVariance	1.378	69.10e-3	1.447	1.447	12537	5.512e-6	3.9602	24.02	503.2	30.75
	3	BSplines	1.259	98.28e-3	1.358	1.358	20833	4.717e-6	3.9774	34.17	472.0	51.09
		MinNorm	1.374	69.16e-3	1.443	1.443	12271	5.636e-6	3.9596	24.05	501.8	30.09
0.5	4	MinVolume	1.313	71.64e-3	1.385	1.385	13225	5.417e-6	3.9616	24.91	481.4	32.43
		ApproxMinVolume	1.319	71.76e-3	1.391	1.391	13243	5.419e-6	3.9617	24.95	483.7	32.48
		Recursive	1.264	65.27e-3	1.329	1.329	11983	5.447e-6	3.9588	22.69	462.2	29.39
		Recursive2	1.276	65.85e-3	1.342	1.342	12021	5.478e-6	3.9588	22.90	466.5	29.48
		Interval	30.99e-6	100.4	100.4	01:40	12432805	8.079e-6	2.5375	100.0	100.0	100.0
		Bernstein	3.894	14.44	18.33	18.331	962773	15.00e-6	2.3014	14.37	18.25	7.744
		MinVariance	4.778	15.59	20.37	20.372	1001287	15.57e-6	2.3026	15.52	20.28	8.054
		BSplines	3.882	22.09	25.97	25.973	1516589	14.57e-6	2.3172	21.99	25.86	12.20
	5	MinNorm	4.619	15.49	20.11	20.108	983659	15.75e-6	2.3021	15.42	20.02	7.912
		MinVolume	3.988	15.32	19.31	19.306	1038711	14.75e-6	2.3038	15.25	19.22	8.355
	6	ApproxMinVolume	4.355	16.28	20.63	20.633	1039649	15.66e-6	2.3039	16.21	20.54	8.362
		Recursive	3.958	14.86	18.82	18.818	970293	15.31e-6	2.3014	14.79	18.73	7.804
	7	Recursive2	3.900	14.74	18.64	18.640	965371	15.27e-6	2.3014	14.67	18.56	7.765
		Interval	32.90e-6	2029	2029	33:49	203304991	9.982e-6	1.5822	100.0	100.0	100.0
0.25	4	Bernstein	79.85	1638	1718	28.38	46148879	35.52e-6	1.5430	80.76	84.69	22.70
		MinVariance	81.93	1817	1899	31:39	49219861	36.94e-6	1.5441	89.58	93.62	24.21
		BSplines	78.79	3043	3122	52:02	96702183	31.48e-6	1.5578	150.0	153.9	47.57
		MinNorm	81.24	1730	1811	30:11	47791857	36.21e-6	1.5436	85.27	89.27	23.51
		MinVolume	79.48	1854	1934	32:14	52291685	35.47e-6	1.5452	91.40	95.31	25.72
		ApproxMinVolume	80.76	1854	1935	32:15	52373087	35.42e-6	1.5453	91.40	95.38	25.76
		Recursive	79.07	1654	1733	28:53	46681459	35.44e-6	1.5430	81.52	85.41	22.96
		Recursive2	78.41	1613	1692	28:12	46257725	34.89e-6	1.5430	79.51	83.38	22.75

Table 32: Bisection of problem 2D with problem: 3, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	32.19e-6	24.76e-3	24.79e-3	0.025	3681	6.727e-6	1.0755	100.0	100.0	100.0
		Bernstein	821.1e-3	8.299e-3	829.4e-3	0.829	1811	4.582e-6	1.0716	33.51	3345.2	49.20
		MinVariance	945.6e-3	9.899e-3	955.5e-3	0.955	1957	5.058e-6	1.0717	39.98	3853.7	53.16
		BSplines	867.3e-3	16.56e-3	883.8e-3	0.884	3709	4.465e-6	1.0735	66.87	3564.7	100.8
		MinNorm	933.5e-3	9.447e-3	942.9e-3	0.943	1877	5.033e-6	1.0717	38.15	3803.0	50.99
	3	MinVolume	913.1e-3	10.70e-3	923.8e-3	0.924	2111	5.070e-6	1.0718	43.22	3725.9	57.35
		ApproxMinVolume	894.2e-3	10.63e-3	904.8e-3	0.905	2155	4.934e-6	1.0718	42.94	3649.3	58.54
		Recursive	869.2e-3	9.580e-3	878.8e-3	0.879	1953	4.905e-6	1.0716	38.69	3544.2	53.06
		Recursive2	874.0e-3	11.45e-3	885.4e-3	0.885	2177	5.257e-6	1.0716	46.22	3571.1	59.14
		Interval	25.99e-6	2.412	2.412	2.412	338615	7.123e-6	741.67e-3	100.0	100.0	100.0
0.01	4	Bernstein	3.040	1.225	4.265	4.265	114573	10.69e-6	738.33e-3	50.78	176.8	33.84
		MinVariance	4.389	1.579	5.968	5.968	132839	11.89e-6	738.62e-3	65.47	247.4	39.23
		BSplines	3.201	4.745	7.945	7.945	439927	10.75e-6	742.24e-3	196.7	329.4	129.9
		MinNorm	4.228	1.447	5.675	5.675	124471	11.63e-6	738.47e-3	60.00	235.3	36.76
		MinVolume	3.603	1.681	5.284	5.284	152079	11.05e-6	738.94e-3	69.70	219.1	44.91
	5	ApproxMinVolume	3.545	1.686	5.232	5.232	152539	11.06e-6	738.94e-3	69.92	216.9	45.05
		Recursive	3.468	1.343	4.811	4.811	124871	10.76e-6	738.33e-3	55.70	199.5	36.88
		Recursive2	3.730	1.390	5.120	5.120	121037	11.49e-6	738.33e-3	57.64	212.3	35.74
		Interval	30.04e-6	656.8	656.8	10:56	74476465	8.819e-6	621.32e-3	100.0	100.0	100.0
		Bernstein	3.989	332.0	336.0	0:53	19245713	17.25e-6	617.74e-3	50.55	51.16	25.84
0.1	2	MinVariance	5.146	410.4	415.5	0:55	23136529	17.74e-6	618.08e-3	62.48	63.27	31.07
		BSplines	3.993	1733	1737	28:57	104719931	16.55e-6	621.91e-3	263.9	264.5	140.6
		MinNorm	5.005	365.3	370.3	0:10	21292973	17.16e-6	617.91e-3	55.63	56.39	28.59
		MinVolume	4.501	476.5	481.0	0:00	27314957	17.44e-6	618.38e-3	72.55	73.23	36.68
		ApproxMinVolume	4.603	480.3	484.9	0:04	27411249	17.52e-6	618.38e-3	73.13	73.83	36.81
	3	Recursive	4.029	337.6	341.6	0:541	19864619	16.99e-6	617.74e-3	51.40	52.01	26.67
		Recursive2	4.010	396.0	400.1	0:640	22714937	17.44e-6	617.74e-3	60.30	60.91	30.50
		Interval	25.00e-6	102808	102808	1:04:33:28	10664656770	9.640e-6	529.85e-3	100.0	100.0	100.0
		Bernstein	54.99	103739	103739	1:04:48:59	2444578852	42.44e-6	526.69e-3	100.9	100.9	22.92
		MinVariance	59.84	132181	132181	1:12:43:01	3096099520	42.69e-6	527.05e-3	128.6	128.6	29.03
	4	BSplines	55.32	830854	830854	9:14:47:34	20232268004	41.07e-6	531.29e-3	808.2	808.2	189.7
		MinNorm	59.56	118243	118243	1:08:50:43	2785568436	42.45e-6	526.90e-3	115.0	115.0	26.12
		MinVolume	57.27	158940	158940	1:20:09:00	3787983312	41.96e-6	527.38e-3	154.6	154.6	35.52
		ApproxMinVolume	57.32	158627	158628	1:20:03:48	3815646750	41.57e-6	527.39e-3	154.3	154.3	35.78
		Recursive	54.92	104408	104408	1:05:00:08	2479552360	42.11e-6	526.69e-3	101.6	101.6	23.25
	5	Recursive2	55.24	124938	124938	1:10:42:18	2968497414	42.09e-6	526.69e-3	121.5	121.5	27.83
0.1	2	Interval	29.80e-6	8.639e-3	8.669e-3	0.009	975	8.861e-6	1.1306	100.0	100.0	100.0
		Bernstein	813.5e-3	4.666e-3	818.2e-3	0.818	469	9.949e-6	1.0927	54.01	9438.2	48.10
		MinVariance	916.4e-3	5.070e-3	921.5e-3	0.921	505	10.04e-6	1.0933	58.69	10629.8	51.79
		BSplines	769.9e-3	8.738e-3	778.6e-3	0.779	1137	7.685e-6	1.1115	101.1	8981.7	116.6
		MinNorm	976.5e-3	5.333e-3	981.8e-3	0.982	479	11.13e-6	1.0930	61.73	11325.7	49.13
	3	MinVolume	986.8e-3	5.167e-3	992.0e-3	0.992	567	9.113e-6	1.0940	59.81	11443.4	58.15
		ApproxMinVolume	898.3e-3	5.214e-3	903.6e-3	0.904	573	9.099e-6	1.0940	60.35	10423.0	58.77
		Recursive	885.6e-3	5.694e-3	891.3e-3	0.891	611	9.319e-6	1.0927	65.91	10281.3	62.67
		Recursive2	878.0e-3	6.179e-3	884.2e-3	0.884	789	7.832e-6	1.0927	71.52	10200.1	80.92
		Interval	30.99e-6	396.2e-3	396.2e-3	0.396	51615	7.675e-6	794.69e-3	100.0	100.0	100.0
	4	Bernstein	3.008	200.0e-3	3.208	3.208	18043	11.09e-6	766.06e-3	50.49	809.7	34.96
		MinVariance	4.424	248.2e-3	4.673	4.673	20615	12.04e-6	678.90e-3	62.66	1179.4	39.94
		BSplines	3.175	869.1e-3	4.044	4.044	77501	11.21e-6	797.06e-3	219.4	1020.8	150.2
		MinNorm	4.255	234.9e-3	4.490	4.490	19393	12.11e-6	768.21e-3	59.30	1133.2	37.57
		MinVolume	3.637	284.9e-3	3.922	3.922	23803	11.97e-6	770.54e-3	71.92	990.0	46.12
	5	ApproxMinVolume	3.579	277.0e-3	3.856	3.856	24007	11.54e-6	770.68e-3	69.92	973.3	46.51
		Recursive	3.518	295.0e-3	3.813	3.813	25509	11.57e-6	766.06e-3	74.47	962.4	49.42
		Recursive2	3.742	284.5e-3	4.027	4.027	24721	11.51e-6	766.06e-3	71.81	1016.3	47.89
		Interval	21.93e-6	30.96	30.96	30.958	3671039	8.433e-6	678.03e-3	100.0	100.0	100.0
		Bernstein	4.027	17.47	21.50	21.500	974561	17.93e-6	647.64e-3	56.44	69.45	26.55
0.1	2	MinVariance	5.238	20.22	25.46	25.463	1137457	17.78e-6	649.64e-3	65.33	82.25	30.98
		BSplines	3.989	102.9	106.9	0:14:6	5893657	17.47e-6	678.47e-3	332.5	345.4	160.5
		MinNorm	4.993	18.11	23.10	23.099	1044023	17.34e-6	648.77e-3	58.49	74.62	28.44
		MinVolume	4.503	24.61	29.11	29.111	1361057	18.08e-6	651.67e-3	79.49	94.04	37.08
		ApproxMinVolume	4.634	24.23	28.87	28.868	1366759	17.73e-6	651.69e-3	78.28	93.25	37.23
	3	Recursive	4.088	28.88	32.97	32.972	1650643	17.50e-6	647.64e-3	93.30	106.5	44.96
		Recursive2	4.109	40.61	44.72	44.721	2289249	17.74e-6	647.64e-3	131.2	144.5	62.36
		Interval	33.86e-6	2784	2784	46:24	238094609	11.70e-6	587.12e-3	100.0	100.0	100.0
		Bernstein	72.52	2210	2282	38:02	52163893	42.37e-6	559.75e-3	79.37	81.98	21.91
		MinVariance	77.76	2812	2890	48:10	64090301	43.88e-6	562.22e-3	101.0	103.8	26.92
	4	BSplines	72.43	21342	21414	05:56:54	513123433	41.59e-6	595.66e-3	766.4	769.0	215.5
		MinNorm	77.31	2427	2504	41:44	57209201	42.43e-6	561.16e-3	87.16	89.94	24.03
		MinVolume	74.87	3418	3493	58:13	81195589	42.11e-6	564.56e-3	122.8	125.5	34.10
		ApproxMinVolume	75.19	3418	3493	58:13	81941527	41.72e-6	564.77e-3	122.8	125.5	34.42
		Recursive	72.39	4183	4256	01:10:56	89951899	46.51e-6	559.75e-3	150.2	152.8	37.78
	5	Recursive2	73.53	6679	6753	01:52:33	153842559	43.42e-6	559.75e-3	239.9	242.5	64.61

Table 33: Bisection of problem 2D with problem: 4, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	26.94e-6	15.76e-3	15.79e-3	0.016	2227	7.077e-6	2.7566	100.0	100.0	100.0
		Bernstein	851.0e-3	7.473e-3	858.5e-3	0.859	1155	6.470e-6	2.7533	47.42	5438.3	51.86
		MinVariance	948.1e-3	7.155e-3	955.3e-3	0.955	1187	6.028e-6	2.7535	45.40	6051.1	53.30
		BSplines	855.8e-3	10.40e-3	866.2e-3	0.866	2077	5.007e-6	2.7564	65.99	5486.9	93.26
		MinNorm	921.4e-3	6.593e-3	928.1e-3	0.928	1173	5.621e-6	2.7534	41.83	5878.6	52.67
	3	MinVolume	901.1e-3	7.179e-3	908.3e-3	0.908	1291	5.561e-6	2.7536	45.55	5753.5	57.97
		ApproxMinVolume	890.7e-3	7.263e-3	898.0e-3	0.898	1291	5.626e-6	2.7536	46.08	5688.2	57.97
		Recursive	882.0e-3	7.564e-3	889.6e-3	0.890	1245	6.075e-6	2.7533	47.99	5634.9	55.90
		Recursive2	876.5e-3	7.716e-3	884.2e-3	0.884	1289	5.986e-6	2.7533	48.96	5600.9	57.88
		Interval	30.99e-6	3.992	3.992	534053	7.476e-6	2.4706	100.0	100.0	100.0	100.0
0.01	4	Bernstein	2.980	1.579	4.560	144833	10.90e-6	2.4646	39.56	114.2	27.12	
		MinVariance	4.411	1.910	6.321	164685	11.60e-6	2.4649	47.85	158.3	30.84	
		BSplines	3.006	5.579	8.585	524291	10.64e-6	2.4685	139.7	215.0	98.17	
		MinNorm	4.144	1.787	5.931	155785	11.47e-6	2.4647	44.76	148.6	29.17	
		MinVolume	3.604	1.957	5.561	185863	10.53e-6	2.4652	49.02	139.3	34.80	
	5	ApproxMinVolume	3.563	1.991	5.554	186327	10.69e-6	2.4652	49.87	139.1	34.89	
		Recursive	3.481	1.661	5.142	151527	10.96e-6	2.4646	41.61	128.8	28.37	
		Recursive2	3.706	1.722	5.427	154991	11.11e-6	2.4646	43.13	135.9	29.02	
		Interval	29.80e-6	1035	1035	1287604001	8.039e-6	1.4003	100.0	100.0	100.0	100.0
		Bernstein	3.976	621.7	625.6	10:25	36466701	17.05e-6	1.3955	60.06	60.44	28.32
0.05	3	MinVariance	5.143	766.1	771.2	12:51	43994795	17.41e-6	1.3959	74.01	74.51	34.17
		BSplines	3.975	3225	3229	53:49	195965275	16.46e-6	1.4017	311.6	312.0	152.2
		MinNorm	5.109	707.4	712.5	11:52	40524263	17.46e-6	1.3957	68.34	68.83	31.47
		MinVolume	4.482	895.4	899.9	14:59	52061161	17.20e-6	1.3964	86.51	86.94	40.43
		ApproxMinVolume	4.588	926.5	931.1	15:31	52231541	17.74e-6	1.3964	89.51	89.95	40.56
	4	Recursive	4.045	622.4	626.5	10:26	36743093	16.94e-6	1.3955	60.13	60.52	28.54
		Recursive2	4.032	700.4	704.4	11:44	39821409	17.59e-6	1.3955	67.66	68.05	30.93
		Interval	27.00e-6	268804	268804	3:02:40:04	27631246986	9.728e-6	1.1860	100.0	100.0	100.0
		Bernstein	55.16	313507	313507	3:15:05:07	7564556834	41.44e-6	1.1815	116.6	116.6	27.38
		MinVariance	59.62	402065	402066	4:15:41:06	9456023571	42.52e-6	1.1821	149.6	149.6	34.22
0.1	2	BSplines	55.32	2318310	2318310	26:19:58:30	56382434349	41.12e-6	1.1886	862.5	862.5	204.1
		MinNorm	58.99	358320	358320	4:03:32:00	8552976789	41.89e-6	1.1818	133.3	133.3	30.95
		MinVolume	56.97	476356	476356	5:12:19:16	11502913956	41.41e-6	1.1826	177.2	177.2	41.63
		ApproxMinVolume	57.51	486845	486845	5:15:14:05	11561867436	42.11e-6	1.1826	181.1	181.1	41.84
		Recursive	55.23	318558	318558	3:16:29:18	7584612182	42.00e-6	1.1815	118.5	118.5	27.45
	3	Recursive2	55.41	354670	354671	4:02:31:11	8501932997	41.72e-6	1.1815	131.9	131.9	30.77
		Interval	29.80e-6	6.009e-3	6.090e-3	0.001	635	9.543e-6	2.8082	100.0	100.0	100.0
		Bernstein	861.1e-3	4.463e-3	865.6e-3	0.866	379	11.78e-6	2.7809	73.64	14212.8	59.69
		MinVariance	944.3e-3	4.365e-3	948.7e-3	0.949	391	11.16e-6	2.7820	72.03	15578.0	61.57
		BSplines	858.6e-3	5.584e-3	864.2e-3	0.864	673	8.297e-6	2.8057	92.14	14190.7	106.0
0.5	4	MinNorm	912.4e-3	3.962e-3	916.3e-3	0.916	381	10.40e-6	2.7815	65.38	15046.8	60.00
		MinVolume	900.8e-3	4.753e-3	905.6e-3	0.906	421	11.29e-6	2.7830	78.43	14870.3	66.30
		ApproxMinVolume	903.9e-3	4.384e-3	908.2e-3	0.908	421	10.41e-6	2.7830	72.34	14913.9	66.30
		Recursive	882.9e-3	4.881e-3	887.8e-3	0.888	461	10.59e-6	2.7809	80.54	14578.5	72.60
		Recursive2	868.9e-3	4.721e-3	873.7e-3	0.874	505	9.349e-6	2.7809	77.91	14346.1	79.53
	5	Interval	33.14e-6	726.9e-3	727.0e-3	0.727	100485	7.234e-6	2.5447	100.0	100.0	100.0
		Bernstein	3.026	404.2e-3	3.430	3.430	34487	11.72e-6	2.4963	55.60	471.8	34.32
		MinVariance	4.440	486.9e-3	4.927	4.927	38617	12.61e-6	2.4994	66.98	677.8	38.43
		BSplines	3.192	1.271	4.463	4.463	110119	11.54e-6	2.5347	174.8	613.9	109.6
		MinNorm	4.260	449.3e-3	4.710	4.710	36521	12.30e-6	2.4977	61.80	647.9	36.34
0.25	3	MinVolume	3.615	519.4e-3	4.134	4.134	42611	12.19e-6	2.5005	71.45	568.7	42.41
		ApproxMinVolume	3.594	493.4e-3	4.087	4.087	42757	11.54e-6	2.5005	67.87	562.2	42.55
		Recursive	3.537	504.0e-3	4.041	4.041	41097	12.26e-6	2.4963	69.34	555.8	40.90
		Recursive2	3.726	517.8e-3	4.243	4.243	44195	11.72e-6	2.4963	71.23	583.7	43.98
		Interval	25.99e-6	46.10	46.10	46.096	5555105	8.298e-6	1.4800	100.0	100.0	100.0
	4	Bernstein	4.052	27.76	31.81	31.809	1565705	17.73e-6	1.4400	60.22	69.01	28.18
		MinVariance	5.221	33.52	38.74	38.739	1893689	17.70e-6	1.4436	72.71	84.04	34.09
		BSplines	4.013	158.0	162.0	0.0242	8903247	17.75e-6	1.4884	342.8	351.5	160.3
		MinNorm	5.021	30.48	35.50	35.501	1741137	17.51e-6	1.4422	66.12	77.02	31.34
		MinVolume	4.461	39.96	44.42	44.417	2279491	17.53e-6	1.4475	86.68	96.36	41.03
0.05	5	ApproxMinVolume	4.646	41.37	46.02	46.016	2296705	18.01e-6	1.4475	89.75	99.83	41.34
		Recursive	4.056	32.69	36.75	36.747	1876827	17.42e-6	1.4400	70.92	79.72	33.79
		Recursive2	4.000	48.37	52.37	52.367	2754427	17.56e-6	1.4400	104.9	113.6	49.58
		Interval	30.99e-6	3969	3969	01:06:09	419976939	9.451e-6	1.2690	100.0	100.0	100.0
		Bernstein	73.69	4549	4623	01:17:03	108143023	42.07e-6	1.2322	114.6	116.5	25.75
	6	MinVariance	78.64	5935	6014	01:40:14	135494661	43.81e-6	1.2361	149.5	151.5	32.26
		BSplines	73.65	40111	40185	11:09:45	932347931	43.02e-6	1.2853	1010.6	1012.4	222.0
		MinNorm	78.62	5242	5320	01:28:40	121779057	43.05e-6	1.2342	132.1	134.1	29.00
		MinVolume	75.94	7175	7251	02:00:51	168394019	42.61e-6	1.2396	180.8	182.7	40.10
		ApproxMinVolume	76.31	7266	7343	02:02:23	170052169	42.73e-6	1.2397	183.1	185.0	40.49
0.01	7	Recursive	73.10	5477	5550	01:32:30	128176393	42.73e-6	1.2322	138.0	139.8	30.52
		Recursive2	73.55	10646	10720	02:58:40	245595885	43.35e-6	1.2322	268.2	270.1	58.48

Table 34: Bisection of problem 2D with problem: 5, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	25.99e-6	3.508e-3	3.534e-3	0.004	89	39.42e-6	infeasible	100.0	100.0	100.0
		Bernstein	855.0e-3	3.075e-3	858.1e-3	0.858	65	47.31e-6	infeasible	87.66	24279.9	73.03
		MinVariance	948.8e-3	3.210e-3	952.1e-3	0.952	61	52.62e-6	infeasible	91.50	26939.2	68.54
		BSplines	870.6e-3	3.127e-3	873.7e-3	0.874	111	28.17e-6	infeasible	89.14	24722.0	124.7
		MinNorm	919.0e-3	3.190e-3	922.2e-3	0.922	59	54.07e-6	infeasible	90.93	26094.1	66.29
	3	MinVolume	903.5e-3	2.918e-3	906.5e-3	0.906	69	42.29e-6	infeasible	83.18	25649.0	77.53
		ApproxMinVolume	894.0e-3	3.415e-3	897.4e-3	0.897	69	49.49e-6	infeasible	97.35	25392.4	77.53
		Recursive	867.5e-3	3.538e-3	871.1e-3	0.871	91	38.88e-6	infeasible	100.9	24648.1	102.2
		Recursive2	873.2e-3	3.271e-3	876.4e-3	0.876	119	27.49e-6	infeasible	93.24	24799.9	133.7
		Interval	29.09e-6	2.133	2.133	2.133	296425	7.197e-6	4.0146	100.0	100.0	100.0
	4	Bernstein	2.989	981.1e-3	3.970	3.970	96347	10.18e-6	4.0092	45.99	186.1	32.50
		MinVariance	4.388	1.249	5.637	5.637	110827	11.27e-6	4.0097	58.52	264.2	37.39
		BSplines	3.142	3.625	6.766	6.766	353175	10.26e-6	4.0148	169.9	317.2	119.1
		MinNorm	4.237	1.147	5.384	5.384	103835	11.05e-6	4.0093	53.76	252.4	35.03
		MinVolume	3.586	1.317	4.902	4.902	125293	10.51e-6	4.0102	61.72	229.8	42.27
	5	ApproxMinVolume	3.561	1.374	4.935	4.935	125641	10.93e-6	4.0102	64.39	231.3	42.39
		Recursive	3.506	1.076	4.581	4.581	99723	10.79e-6	4.0092	50.42	214.7	33.64
		Recursive2	3.711	1.100	4.811	4.811	100257	10.97e-6	4.0092	51.55	225.5	33.82
		Interval	30.99e-6	1098	1098	18:18	137707139	7.978e-6	2.3843	100.0	100.0	100.0
		Bernstein	3.996	136.3	140.3	02:20	7384597	18.46e-6	2.3649	12.41	12.77	5.363
	0.01	MinVariance	5.140	162.8	167.9	02:47	8554199	19.03e-6	2.3654	14.82	15.29	6.212
		BSplines	3.965	570.1	574.0	09:34	31906287	17.87e-6	2.3716	51.89	52.25	23.17
		MinNorm	5.019	153.3	158.3	02:38	8023337	19.10e-6	2.3653	13.95	14.41	5.826
		MinVolume	4.565	186.6	191.2	03:11	9785119	19.07e-6	2.3659	16.99	17.40	7.106
		ApproxMinVolume	4.591	183.7	188.3	03:08	9810943	18.73e-6	2.3659	16.72	17.14	7.124
	2	Recursive	4.050	143.4	147.4	02:27	7716861	18.58e-6	2.3649	13.05	13.42	5.604
		Recursive2	4.053	145.5	149.6	02:29	7929785	18.35e-6	2.3649	13.25	13.62	5.758
		Interval	27.00e-6	405792	405792	4:16:43:12	41698312627	9.732e-6	1.6158	100.0	100.0	100.0
		Bernstein	54.92	442040	442040	5:02:47:20	10525260016	42.00e-6	1.6106	108.9	108.9	25.24
		MinVariance	59.84	560127	560127	6:11:35:27	13261984483	42.24e-6	1.6112	138.0	138.0	31.80
	3	BSplines	55.22	3480110	3480110	40:06:41:50	84542081447	41.16e-6	1.6186	857.6	857.6	202.7
		MinNorm	59.50	504001	504001	5:20:00:01	11965685782	42.12e-6	1.6109	124.2	124.2	28.70
		MinVolume	57.31	674935	674935	7:19:28:55	16261873597	41.50e-6	1.6118	166.3	166.3	39.00
		ApproxMinVolume	57.20	680081	680081	7:20:54:41	16348455509	41.60e-6	1.6118	167.6	167.6	39.21
		Recursive	54.74	440588	440588	5:02:23:08	10541421976	41.80e-6	1.6106	108.6	108.6	25.28
	4	Recursive2	54.99	484821	484821	5:14:40:21	11621586282	41.72e-6	1.6106	119.5	119.5	27.87
		Interval	30.99e-6	3.143e-3	3.174e-3	0.003	89	35.31e-6	infeasible	100.0	100.0	100.0
		Bernstein	852.0e-3	3.445e-3	855.4e-3	0.855	65	53.00e-6	infeasible	109.6	26953.0	73.03
		MinVariance	933.4e-3	3.084e-3	936.5e-3	0.936	61	50.56e-6	infeasible	98.13	29505.6	68.54
		BSplines	855.2e-3	3.523e-3	858.8e-3	0.859	111	31.74e-6	infeasible	112.1	27057.7	124.7
	5	MinNorm	927.2e-3	3.378e-3	930.6e-3	0.931	59	57.25e-6	infeasible	107.5	29321.1	66.29
		MinVolume	942.3e-3	3.229e-3	945.5e-3	0.946	69	46.80e-6	infeasible	102.7	29791.9	77.53
		ApproxMinVolume	908.4e-3	3.232e-3	911.6e-3	0.912	69	46.84e-6	infeasible	102.8	28722.8	77.53
		Recursive	869.6e-3	3.298e-3	872.9e-3	0.873	91	36.24e-6	infeasible	104.9	27502.9	102.2
		Recursive2	873.4e-3	3.426e-3	876.8e-3	0.877	119	28.79e-6	infeasible	109.0	27626.5	133.7
	0.01	Interval	28.85e-6	262.8e-3	262.8e-3	0.263	35691	7.363e-6	4.0953	100.0	100.0	100.0
		Bernstein	2.991	142.6e-3	3.133	3.133	12859	11.09e-6	4.0529	54.28	1192.1	36.03
		MinVariance	4.424	171.5e-3	4.595	4.595	14453	11.87e-6	4.0544	65.26	1748.3	40.49
		BSplines	3.193	481.6e-3	3.674	3.674	45133	10.67e-6	4.0987	183.2	1398.0	126.5
		MinNorm	4.222	158.6e-3	4.381	4.381	13565	11.69e-6	4.0537	60.36	1666.7	38.01
	2	MinVolume	3.578	185.1e-3	3.764	3.764	16767	11.04e-6	4.0599	70.43	1431.9	46.98
		ApproxMinVolume	3.616	192.1e-3	3.808	3.808	16817	11.42e-6	4.0599	73.09	1448.9	47.12
		Recursive	3.513	176.1e-3	3.689	3.689	15323	11.49e-6	4.0529	66.99	1403.7	42.93
		Recursive2	3.701	183.4e-3	3.884	3.884	16075	11.41e-6	4.0529	69.80	1478.0	45.04
		Interval	25.99e-6	123.8	123.8	02:03	14560057	8.500e-6	2.6074	100.0	100.0	100.0
	3	Bernstein	4.029	19.42	23.45	23.45	1038455	18.70e-6	2.4438	15.69	18.95	7.132
		MinVariance	5.157	23.09	28.24	28.24	1220073	18.92e-6	2.4487	18.65	22.82	8.380
		BSplines	3.972	80.85	84.82	01:24	4535381	17.83e-6	2.4946	65.32	68.53	31.14
		MinNorm	5.042	21.43	26.47	26.467	1118335	19.16e-6	2.4463	17.31	21.38	7.681
		MinVolume	4.478	26.15	30.63	30.625	1390943	18.80e-6	2.4509	21.13	24.74	9.553
	4	ApproxMinVolume	4.600	25.80	30.40	30.404	1395155	18.50e-6	2.4510	20.85	24.57	9.582
		Recursive	4.022	23.82	27.84	27.838	1317881	18.07e-6	2.4438	19.24	22.49	9.051
		Recursive2	4.055	27.91	31.97	31.966	1486525	18.78e-6	2.4438	22.55	25.83	10.21
		Interval	32.90e-6	5334	5334	01:28:54	552015029	9.664e-6	1.7103	100.0	100.0	100.0
		Bernstein	72.48	6473	6545	01:49:05	149768043	43.22e-6	1.6674	121.3	122.7	27.13
	5	MinVariance	77.92	8162	8240	02:17:20	187719485	43.48e-6	1.6722	153.0	154.5	34.01
		BSplines	73.05	49584	49657	13:47:37	1165915905	42.53e-6	1.7288	929.5	930.9	211.2
		MinNorm	77.51	7223	7301	02:01:41	169241603	42.68e-6	1.6702	135.4	136.9	30.66
		MinVolume	75.30	9778	9854	02:44:14	230353345	42.45e-6	1.6761	183.3	184.7	41.73
		ApproxMinVolume	75.22	9792	9867	02:44:27	231925331	42.22e-6	1.6762	183.6	185.0	42.01
	6	Recursive	72.15	6773	6845	01:54:05	159770339	42.39e-6	1.6674	127.0	128.3	28.94
		Recursive2	72.55	12787	12860	03:34:20	292924389	43.66e-6	1.6674	239.7	241.1	53.06

Table 35: Bissection of problem 2D with problem: 6, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	11.03e-3	11.06e-3	0.011	1441	7.657e-6	755.10e-3	100.0	100.0	100.0
		Bernstein	850.5e-3	6.153e-3	856.7e-3	0.857	767	8.022e-6	746.14e-3	55.77	7742.9	53.23
		MinVariance	951.6e-3	6.353e-3	958.0e-3	0.958	833	7.627e-6	750.68e-3	57.58	8658.4	57.81
		BSplines	863.4e-3	10.28e-3	873.6e-3	0.874	1687	6.094e-6	755.93e-3	93.18	7896.2	117.1
		MinNorm	921.9e-3	5.757e-3	927.7e-3	0.928	807	7.134e-6	750.65e-3	52.18	8384.8	56.00
		MinVolume	851.4e-3	6.605e-3	858.0e-3	0.858	901	7.331e-6	750.74e-3	59.86	7754.8	62.53
	3	ApproxMinVolume	871.6e-3	6.810e-3	878.4e-3	0.878	905	7.525e-6	750.74e-3	61.72	7939.1	62.80
		Recursive	851.8e-3	7.105e-3	858.9e-3	0.859	861	8.252e-6	746.14e-3	64.40	7763.4	59.75
		Recursive2	836.2e-3	8.324e-3	844.5e-3	0.845	971	8.573e-6	746.14e-3	75.44	7632.8	67.38
		Interval	29.09e-6	2.744	2.744	2.744	374127	7.333e-6	531.59e-3	100.0	100.0	100.0
0.005	4	Bernstein	2.981	1.370	4.352	4.352	128365	10.67e-6	528.78e-3	49.94	158.6	34.31
		MinVariance	4.452	1.772	6.224	6.224	149905	11.82e-6	529.10e-3	64.57	226.8	40.07
		BSplines	3.139	5.550	8.690	8.690	535389	10.37e-6	532.31e-3	202.3	316.7	143.1
		MinNorm	4.206	1.743	5.949	5.949	139845	12.46e-6	528.95e-3	63.52	216.8	37.38
		MinVolume	3.549	1.864	5.413	5.413	172433	10.81e-6	529.32e-3	67.94	197.3	46.09
		ApproxMinVolume	3.562	1.932	5.494	5.494	173233	11.15e-6	529.34e-3	70.42	200.3	46.30
	5	Recursive	3.496	1.523	5.020	5.020	137853	11.05e-6	528.78e-3	55.52	183.0	36.85
		Recursive2	3.727	1.520	5.247	5.247	134427	11.31e-6	528.78e-3	55.40	191.2	35.93
		Interval	19.07e-6	641.2	641.2	10:41	73827659	8.684e-6	444.32e-3	100.0	100.0	100.0
		Bernstein	3.988	345.4	349.4	05:49	20095431	17.19e-6	441.41e-3	53.87	54.49	27.22
0.01	2	MinVariance	5.165	421.6	426.8	07:06	24467853	17.23e-6	441.73e-3	65.76	66.57	33.14
		BSplines	4.016	1904	1908	31:48	116588999	16.34e-6	445.18e-3	297.1	297.7	157.9
		MinNorm	5.009	388.5	393.5	06:33	22387547	17.35e-6	441.58e-3	60.60	61.38	30.32
		MinVolume	4.482	493.3	497.8	08:17	29082215	16.96e-6	441.99e-3	76.94	77.64	39.39
		ApproxMinVolume	4.598	515.8	520.4	08:40	29253355	17.63e-6	441.99e-3	80.45	81.17	39.62
		Recursive	4.046	342.4	346.4	05:46	20533235	16.68e-6	441.41e-3	53.40	54.03	27.81
	3	Recursive2	4.050	401.6	405.6	06:45	22936753	17.51e-6	441.41e-3	62.63	63.27	31.07
		Interval	24.00e-6	96110	96110	1-02:41:50	9744487894	9.863e-6	378.44e-3	100.0	100.0	100.0
		Bernstein	54.97	104874	104874	1-05:07:54	2478194516	42.32e-6	375.83e-3	109.1	109.1	25.43
		MinVariance	59.47	134329	134329	1-13:18:49	3123110494	43.01e-6	376.15e-3	139.8	139.8	32.05
0.1	4	BSplines	55.20	827432	827432	9-13:50:32	19977155262	41.42e-6	379.89e-3	860.9	860.9	205.0
		MinNorm	59.81	122082	122082	1-09:54:42	2810659214	43.44e-6	376.00e-3	127.0	127.0	28.84
		MinVolume	57.33	161661	161661	1-20:54:21	3823020650	42.29e-6	376.45e-3	168.2	168.2	39.23
		ApproxMinVolume	57.31	162498	162498	1-21:08:18	3845257550	42.26e-6	376.46e-3	169.1	169.1	39.46
		Recursive	55.14	105865	105865	1-05:24:25	2498628790	42.37e-6	375.83e-3	110.1	110.1	25.64
		Recursive2	54.98	118154	118154	1-08:49:14	2852764846	41.42e-6	375.83e-3	122.9	122.9	29.28
	5	Interval	30.04e-6	16.26e-3	16.29e-3	0.016	1273	12.78e-6	846.26e-3	100.0	100.0	100.0
		Bernstein	846.0e-3	5.137e-3	851.2e-3	0.851	551	9.323e-6	813.57e-3	31.59	5224.3	43.28
		MinVariance	941.5e-3	5.401e-3	946.9e-3	0.947	567	9.526e-6	814.15e-3	33.21	5812.0	44.54
		BSplines	868.8e-3	12.76e-3	881.6e-3	0.882	2519	5.064e-6	829.81e-3	78.43	5410.9	197.9
0.10	2	MinNorm	928.9e-3	5.498e-3	934.5e-3	0.934	553	9.942e-6	813.89e-3	33.81	5735.3	43.44
		MinVolume	919.7e-3	6.429e-3	926.1e-3	0.926	633	10.16e-6	814.70e-3	39.53	5684.2	49.73
		ApproxMinVolume	893.5e-3	5.041e-3	898.6e-3	0.899	637	7.914e-6	814.71e-3	31.00	5515.0	50.04
		Recursive	871.1e-3	5.992e-3	877.1e-3	0.877	661	9.065e-6	813.57e-3	36.84	5383.1	51.92
		Recursive2	866.3e-3	5.679e-3	872.0e-3	0.872	773	7.347e-6	813.57e-3	34.92	5351.7	60.72
		Interval	30.04e-6	471.5e-3	471.6e-3	0.472	65243	7.228e-6	577.23e-3	100.0	100.0	100.0
	3	Bernstein	3.021	239.1e-3	3.260	21793	10.97e-6	553.92e-3	50.71	691.3	33.40	
		MinVariance	4.240	285.1e-3	4.526	25625	11.13e-6	556.24e-3	60.47	959.7	39.28	
		BSplines	3.188	1.091	4.278	4.278	99169	11.00e-6	581.31e-3	231.3	907.2	152.0
		MinNorm	4.155	247.2e-3	4.402	4.402	23703	10.43e-6	555.33e-3	52.43	933.5	36.33
0.15	4	MinVolume	3.620	325.4e-3	3.945	29881	10.89e-6	558.27e-3	69.02	836.6	45.80	
		ApproxMinVolume	3.559	332.9e-3	3.891	3.891	29961	11.11e-6	558.29e-3	70.60	825.2	45.92
		Recursive	3.521	315.4e-3	3.836	3.836	28535	11.05e-6	553.92e-3	66.88	813.5	43.74
		Recursive2	3.737	301.6e-3	4.038	4.038	27773	10.86e-6	553.92e-3	63.96	856.3	42.57
		Interval	31.95e-6	31.51	31.51	31.508	3718417	8.474e-6	493.46e-3	100.0	100.0	100.0
		Bernstein	3.930	17.92	21.85	21.848	1068413	16.77e-6	468.22e-3	56.87	69.34	28.73
0.20	5	MinVariance	5.164	22.81	27.98	27.975	1257073	18.15e-6	470.39e-3	72.40	88.79	33.81
		BSplines	3.996	110.3	114.3	01:54	6387539	17.26e-6	496.65e-3	349.9	362.6	171.8
		MinNorm	5.025	20.10	25.12	25.121	1154511	17.41e-6	469.51e-3	63.78	79.73	31.05
		MinVolume	4.481	26.98	31.46	31.458	1526103	17.68e-6	472.38e-3	85.62	99.84	41.04
	6	ApproxMinVolume	4.646	27.16	31.80	31.804	1531849	17.73e-6	472.40e-3	86.19	100.9	41.20
		Recursive	4.106	27.15	31.25	31.252	1575133	17.23e-6	468.22e-3	86.15	99.18	42.36
		Recursive2	4.014	37.17	41.18	41.184	2118497	17.55e-6	468.22e-3	118.0	130.7	56.97
		Interval	30.99e-6	1929	1929	32:09	204720217	9.427e-6	427.47e-3	100.0	100.0	100.0
0.25	7	Bernstein	71.63	2108	2179	36:19	49313299	42.75e-6	405.09e-3	109.3	113.0	24.09
		MinVariance	77.47	2645	2722	45:22	61364187	43.11e-6	407.22e-3	137.1	141.1	29.97
		BSplines	72.27	19891	19963	05:32:43	471788765	42.16e-6	436.23e-3	1030.7	1034.5	230.5
		MinNorm	76.98	2307	2384	39:44	54279311	42.52e-6	405.95e-3	119.6	123.6	26.51
		MinVolume	75.63	3292	3367	56:07	77114907	42.69e-6	409.21e-3	170.6	174.5	37.67
	8	ApproxMinVolume	75.89	3284	3360	56:00	77509853	42.37e-6	409.22e-3	170.2	174.1	37.86
		Recursive	73.50	3110	3183	53:03	72326041	43.00e-6	405.09e-3	161.2	165.0	35.33
		Recursive2	73.70	5054	5128	01:25:28	118995025	42.48e-6	405.09e-3	261.9	265.7	58.13

Table 36: Bisection of problem 2D with problem: 7, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)	
0.001	2	Interval	25.03e-6	27.69e-3	27.72e-3	0.028	4197	6.598e-6	2.4606	100.0	100.0	100.0	
		Bernstein	814.8e-3	10.33e-3	825.2e-3	0.825	2015	5.127e-6	2.4563	37.31	2977.0	48.01	
		MinVariance	907.9e-3	9.567e-3	917.5e-3	0.918	2175	4.399e-6	2.4564	34.55	3310.2	51.82	
		BSplines	825.4e-3	17.01e-3	842.5e-3	0.842	4141	4.108e-6	2.4598	61.43	3039.5	98.67	
		MinNorm	922.0e-3	9.652e-3	931.6e-3	0.932	2077	4.647e-6	2.4564	34.85	3361.1	49.49	
	3	MinVolume	912.5e-3	11.31e-3	923.9e-3	0.924	2391	4.731e-6	2.4571	40.84	3333.1	56.97	
		ApproxMinVolume	893.7e-3	11.41e-3	905.1e-3	0.905	2393	4.769e-6	2.4571	41.21	3265.5	57.02	
		Recursive	847.2e-3	10.14e-3	857.4e-3	0.857	2083	4.869e-6	2.4563	36.62	3093.2	49.63	
		Recursive2	863.8e-3	10.94e-3	874.8e-3	0.875	2183	5.011e-6	2.4563	39.50	3156.1	52.01	
		Interval	28.13e-6	5.031	5.031	689327	7.298e-6	2.2083		100.0	100.0	100.0	
0.01	4	Bernstein	3.000	1.835	4.835	171517	10.70e-6	2.2022		36.48	96.11	24.88	
		MinVariance	4.396	2.292	6.688	6.688	197113	11.63e-6	2.2026		45.56	132.9	28.59
		BSplines	3.187	6.837	10.02	10.024	621729	11.00e-6	2.2060		135.9	199.3	90.19
		MinNorm	4.214	2.163	6.377	6.377	185449	11.66e-6	2.2024		42.99	126.8	26.90
		MinVolume	3.623	2.441	6.064	6.064	220885	11.05e-6	2.2028		48.52	120.5	32.04
	5	ApproxMinVolume	3.586	2.460	6.046	6.046	221969	11.08e-6	2.2028		48.90	120.2	32.20
		Recursive	3.495	1.933	5.428	5.428	177513	10.89e-6	2.2022		38.42	107.9	25.75
		Recursive2	3.723	2.066	5.789	5.789	180891	11.42e-6	2.2022		41.07	115.1	26.24
		Interval	27.89e-6	1045	1045	125511839	8.333e-6	1.2199		100.0	100.0	100.0	
		Bernstein	3.981	634.9	638.9	10.38	37222273	17.06e-6	1.2155		60.71	61.09	29.66
0.05	3	MinVariance	5.154	765.5	770.7	12.50	44965691	17.02e-6	1.2160		73.19	73.69	35.83
		BSplines	3.990	3344	3348	5548	207118427	16.15e-6	1.2216		319.8	320.1	165.0
		MinNorm	6.269	729.2	735.5	12:15	41301515	17.66e-6	1.2157		69.73	70.33	32.91
		MinVolume	5.780	974.5	980.3	16.20	53254691	18.30e-6	1.2164		93.18	93.73	42.43
		ApproxMinVolume	5.917	929.6	935.5	15.35	53421779	17.40e-6	1.2164		88.88	89.45	42.56
	4	Recursive	5.729	643.6	649.3	10:49	37447497	17.19e-6	1.2155		61.53	62.08	29.84
		Recursive2	5.729	697.6	703.3	11:43	39723013	17.56e-6	1.2155		66.70	67.25	31.65
		Interval	23.00e-6	319404	319404	3-16:43:24	32513055222	9.824e-6	1.0322		100.0	100.0	100.0
		Bernstein	54.70	390185	390185	4-12:23:05	9355057666	41.71e-6	1.0281		122.2	122.2	28.77
		MinVariance	59.52	492832	492832	5-16:53:52	1170334114	42.11e-6	1.0287		154.3	154.3	36.00
0.1	2	BSplines	55.26	2869980	2869980	33-05:13:00	69680252900	41.19e-6	1.0350		898.5	898.5	214.3
		MinNorm	59.34	447737	447737	5-04:22:17	10586690521	42.29e-6	1.0284		140.2	140.2	32.56
		MinVolume	56.96	583673	583674	6-18:07:54	14242991879	41.03e-6	1.0292		182.7	182.7	43.75
		ApproxMinVolume	57.24	597702	597702	6-22:01:42	14296968595	41.81e-6	1.0292		187.1	187.1	43.97
		Recursive	54.92	392680	392680	4-13:04:40	9362850307	41.94e-6	1.0281		122.9	122.9	28.80
	3	Recursive2	55.45	424179	424179	4-21:49:39	10125189187	41.89e-6	1.0281		132.8	132.8	31.14
		Interval	25.99e-6	8.165e-3	8.191e-3	0.008	899	9.082e-6	2.5169		100.0	100.0	100.0
		Bernstein	835.5e-3	4.254e-3	839.7e-3	0.840	427	9.963e-6	2.4865		52.10	10251.8	47.50
		MinVariance	1.008	5.069e-3	1.013	1.013	453	11.19e-6	2.4875		62.08	12362.3	50.39
		BSplines	910.9e-3	6.421e-3	917.4e-3	0.917	947	6.780e-6	2.5101		78.64	11199.4	105.3
0.5	4	MinNorm	972.3e-3	4.781e-3	977.1e-3	0.977	427	11.20e-6	2.4871		58.55	11928.3	47.50
		MinVolume	959.1e-3	4.499e-3	963.6e-3	0.964	489	9.200e-6	2.4885		55.10	11763.7	54.39
		ApproxMinVolume	939.8e-3	4.544e-3	944.3e-3	0.944	489	9.292e-6	2.4885		55.65	11528.5	54.39
		Recursive	912.1e-3	4.528e-3	916.6e-3	0.917	485	9.336e-6	2.4865		55.45	11190.5	53.95
		Recursive2	892.5e-3	6.455e-3	898.9e-3	0.899	561	11.51e-6	2.4865		79.06	10974.7	62.40
	5	Interval	26.23e-6	930.1e-3	930.1e-3	0.930	124427	7.475e-6	2.2797		100.0	100.0	100.0
		Bernstein	3.020	460.5e-3	3.480	3.480	39499	11.66e-6	2.2314		49.51	374.2	31.74
		MinVariance	4.437	531.5e-3	4.968	4.968	44421	11.96e-6	2.2340		57.14	534.1	35.70
		BSplines	3.197	1.499	4.696	4.696	133793	11.20e-6	2.2655		161.1	504.8	107.5
		MinNorm	4.239	505.3e-3	4.745	4.745	41841	12.08e-6	2.2334		54.33	510.1	33.63
0.05	3	MinVolume	3.621	580.3e-3	4.201	4.201	49555	11.71e-6	2.2350		62.39	451.7	39.83
		ApproxMinVolume	3.576	559.1e-3	4.135	4.135	49667	11.26e-6	2.2351		60.11	444.6	39.92
		Recursive	3.516	514.3e-3	4.030	4.030	44473	11.56e-6	2.2314		55.30	433.3	35.74
		Recursive2	3.747	583.6e-3	4.331	4.331	47929	12.18e-6	2.2314		62.75	465.6	38.52
		Interval	22.89e-6	46.75	46.75	46.752	5682049	8.228e-6	1.2952		100.0	100.0	100.0
	4	Bernstein	4.006	30.91	34.91	34.914	1736341	17.80e-6	1.2587		66.11	74.68	30.56
		MinVariance	5.179	36.77	41.95	41.950	2074333	17.73e-6	1.2628		78.65	89.73	36.51
		BSplines	4.003	164.2	168.2	02:48	9156595	17.93e-6	1.3068		351.2	359.8	161.1
		MinNorm	5.021	34.73	39.75	39.747	1905065	18.23e-6	1.2610		74.28	85.02	33.53
		MinVolume	4.350	44.38	48.74	48.735	2466345	18.00e-6	1.2665		94.94	104.2	43.41
0.1	5	ApproxMinVolume	4.634	44.97	49.60	49.603	2479623	18.14e-6	1.2665		96.19	106.1	43.64
		Recursive	4.062	34.05	38.12	38.115	1971079	17.28e-6	1.2587		72.84	81.53	34.69
		Recursive2	4.011	45.94	49.95	49.954	2653161	17.32e-6	1.2587		98.27	106.8	46.69
		Interval	29.09e-6	4393	4393	01:13:13	453425665	9.691e-6	1.1113		100.0	100.0	100.0
		Bernstein	73.56	5428	5501	01:31:41	126238853	43.00e-6	1.0771		123.5	125.2	27.84
	6	MinVariance	77.99	6864	6942	01:55:42	159235441	43.11e-6	1.0810		156.2	158.0	35.12
		BSplines	73.38	44818	44891	12:28:11	1054173521	42.52e-6	1.1296		1020.0	1021.7	232.5
		MinNorm	78.91	6109	6188	01:43:08	142826273	42.77e-6	1.0789		139.0	140.8	31.50
		MinVolume	75.81	8492	8567	02:22:47	196825475	43.15e-6	1.0845		193.3	195.0	43.41
		ApproxMinVolume	76.35	8432	8508	02:21:48	197631629	42.67e-6	1.0845		191.9	193.6	43.59
0.5	7	Recursive	72.94	5955	6028	01:40:28	138828361	42.90e-6	1.0771		135.5	137.2	30.62
		Recursive2	73.10	9938	10011	02:46:51	231923653	42.85e-6	1.0771		226.2	227.8	51.15

Table 37: Bisection of problem 2D with problem: 8, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	28.13e-6	3.805e-3	3.833e-3	0.004	107	35.56e-6	infeasible	100.0	100.0	100.0
		Bernstein	832.8e-3	4.490e-3	837.3e-3	0.837	69	65.07e-6	infeasible	118.0	21845.3	64.49
		MinVariance	960.1e-3	3.990e-3	964.1e-3	0.964	63	63.33e-6	infeasible	104.9	25153.3	58.88
		BSplines	890.6e-3	4.091e-3	894.7e-3	0.895	113	36.20e-6	infeasible	107.5	23342.3	105.6
		MinNorm	956.9e-3	3.709e-3	960.6e-3	0.961	61	60.80e-6	infeasible	97.48	25062.1	57.01
	3	MinVolume	963.6e-3	4.504e-3	968.1e-3	0.968	69	65.28e-6	infeasible	118.4	25255.8	64.49
		ApproxMinVolume	925.8e-3	5.076e-3	930.9e-3	0.931	69	73.56e-6	infeasible	133.4	24285.2	64.49
		Recursive	884.1e-3	3.213e-3	887.3e-3	0.887	93	34.55e-6	infeasible	84.44	23149.8	86.92
		Recursive2	913.3e-3	3.696e-3	917.0e-3	0.917	123	30.05e-6	infeasible	97.14	23923.5	115.0
		Interval	22.89e-6	3.832	3.832	535589	7.155e-6	3.7270	100.0	100.0	100.0	100.0
0.01	4	Bernstein	3.007	1.719	4.727	169079	10.17e-6	3.7217	44.87	123.3	31.57	
		MinVariance	4.425	2.161	6.586	193953	11.14e-6	3.7221	56.38	171.9	36.21	
		BSplines	3.174	6.200	9.374	602377	10.29e-6	3.7270	161.8	244.6	112.5	
		MinNorm	4.159	1.900	6.059	182145	10.43e-6	3.7220	49.59	158.1	34.01	
		MinVolume	3.594	2.337	5.931	218479	10.70e-6	3.7225	60.98	154.8	40.79	
	5	ApproxMinVolume	3.576	2.353	5.929	219029	10.74e-6	3.7225	61.41	154.7	40.89	
		Recursive	3.512	1.798	5.309	172889	10.40e-6	3.7217	46.91	138.5	32.28	
		Recursive2	3.727	1.782	5.510	172987	10.30e-6	3.7217	46.51	143.8	32.30	
		Interval	28.85e-6	1006	1006	16:46	121703787	8.267e-6	2.1947	100.0	100.0	100.0
		Bernstein	5.729	152.7	158.4	02:38	8359845	18.26e-6	2.1783	15.17	15.74	6.869
0.1	2	MinVariance	6.373	183.5	189.9	03:09	9725243	18.87e-6	2.1787	18.24	18.88	7.991
		BSplines	5.730	654.4	660.1	11:00	37879513	17.28e-6	2.1849	65.04	65.61	31.12
		MinNorm	6.293	174.6	180.9	03:00	9083343	19.23e-6	2.1785	17.36	17.98	7.463
		MinVolume	5.785	209.2	215.0	03:35	11178717	18.72e-6	2.1793	20.80	21.37	9.185
		ApproxMinVolume	5.911	206.7	212.6	03:32	11208291	18.44e-6	2.1793	20.55	21.13	9.209
	3	Recursive	5.729	153.9	159.7	02:39	8629967	17.84e-6	2.1783	15.30	15.87	7.091
		Recursive2	5.730	157.8	163.5	02:43	8760471	18.01e-6	2.1783	15.69	16.26	7.198
		Interval	25.00e-6	443355	443355	5-03:09:15	45336337439	9.779e-6	1.4639	100.0	100.0	100.0
		Bernstein	54.88	505438	505438	5-20:23:58	12194051223	41.45e-6	1.4591	114.0	114.0	26.90
		MinVariance	59.57	648260	648260	7-12:04:20	15336208493	42.27e-6	1.4597	146.2	146.2	33.83
0.01	4	BSplines	55.35	3980860	3980860	46-01:47:40	97061977239	41.01e-6	1.4670	897.9	897.9	214.1
		MinNorm	59.34	581173	581173	6-17:26:13	13851412889	41.96e-6	1.4594	131.1	131.1	30.55
		MinVolume	56.94	787178	787178	9-02:39:38	18806004959	41.86e-6	1.4603	177.6	177.6	41.48
		ApproxMinVolume	57.07	788145	788146	9-02:55:46	18894595193	41.71e-6	1.4603	177.8	177.8	41.68
		Recursive	55.47	505199	505199	5-20:19:59	12210389429	41.37e-6	1.4591	113.9	113.9	26.93
	5	Recursive2	54.90	536975	536975	6-05:09:35	13021132675	41.24e-6	1.4591	121.1	121.1	28.72
		Interval	32.90e-6	3.099e-3	3.132e-3	0.003	107	28.96e-6	infeasible	100.0	100.0	100.0
		Bernstein	887.6e-3	3.431e-3	891.1e-3	0.891	69	49.73e-6	infeasible	110.7	28452.1	64.49
		MinVariance	1.005	3.610e-3	1.008	1.008	63	57.30e-6	infeasible	116.5	32191.9	58.88
		BSplines	910.1e-3	3.714e-3	913.8e-3	0.914	113	32.87e-6	infeasible	119.8	29179.0	105.6
0.01	2	MinNorm	966.2e-3	3.746e-3	970.0e-3	0.970	61	61.41e-6	infeasible	120.9	30970.4	57.01
		MinVolume	939.1e-3	3.683e-3	942.8e-3	0.943	69	53.37e-6	infeasible	118.8	30101.9	64.49
		ApproxMinVolume	932.2e-3	2.895e-3	935.1e-3	0.935	69	41.96e-6	infeasible	93.42	29858.7	64.49
		Recursive	889.5e-3	3.490e-3	893.0e-3	0.893	93	37.53e-6	infeasible	112.6	28513.2	86.92
		Recursive2	886.7e-3	4.209e-3	890.9e-3	0.891	123	34.22e-6	infeasible	135.8	28447.7	115.0
	3	Interval	27.89e-6	390.9e-3	391.0e-3	0.391	54021	7.237e-6	3.8013	100.0	100.0	100.0
		Bernstein	3.005	195.1e-3	3.200	18025	10.83e-6	3.7604	49.92	818.4	33.37	
		MinVariance	4.420	244.1e-3	4.664	20667	11.81e-6	3.7636	62.44	1193.0	38.26	
		BSplines	3.193	699.1e-3	3.892	62871	11.12e-6	3.8029	178.8	995.6	116.4	
		MinNorm	4.249	225.4e-3	4.475	4.475	19319	11.67e-6	3.7612	57.66	1144.5	35.76
0.01	4	MinVolume	3.621	271.8e-3	3.893	3.893	23307	11.66e-6	3.7668	69.54	995.7	43.14
		ApproxMinVolume	3.552	262.6e-3	3.814	3.814	23405	11.22e-6	3.7668	67.18	975.6	43.33
		Recursive	3.506	227.9e-3	3.734	3.734	20579	11.08e-6	3.7604	58.31	955.1	38.09
		Recursive2	3.723	238.0e-3	3.961	3.961	21219	11.21e-6	3.7604	60.87	1013.0	39.28
		Interval	28.85e-6	110.6	110.6	01:50	12930525	8.553e-6	2.3987	100.0	100.0	100.0
	5	Bernstein	3.996	21.95	25.94	25.945	1205923	18.20e-6	2.2545	19.85	23.46	9.326
		MinVariance	5.151	26.41	31.56	31.562	1387717	19.03e-6	2.2579	23.88	28.54	10.73
		BSplines	3.897	97.25	101.1	01:41	5357205	18.15e-6	2.3074	87.93	91.46	41.43
		MinNorm	5.026	24.52	29.55	29.545	1296779	18.91e-6	2.2569	22.17	26.71	10.03
		MinVolume	4.442	29.94	34.38	34.379	1623393	18.44e-6	2.2634	27.07	31.08	12.55
0.1	4	ApproxMinVolume	4.652	30.17	34.82	34.825	1627995	18.53e-6	2.2634	27.28	31.49	12.59
		Recursive	4.084	26.18	30.26	30.264	1441133	18.17e-6	2.2545	23.67	27.36	11.15
		Recursive2	4.038	28.74	32.78	32.777	1546739	18.58e-6	2.2545	25.98	29.64	11.96
		Interval	38.15e-6	6143	6143	01:42:23	616168033	9.970e-6	1.5549	100.0	100.0	100.0
		Bernstein	72.69	7445	7518	02:05:18	175378943	42.45e-6	1.5150	121.2	122.4	28.46
	5	MinVariance	78.45	9560	9639	02:40:39	220580649	43.34e-6	1.5198	155.6	156.9	35.80
		BSplines	73.27	58059	58132	16:08:52	1352073687	42.94e-6	1.5759	945.1	946.3	219.4
		MinNorm	78.37	8478	8556	02:22:36	198405669	42.73e-6	1.5175	138.0	139.3	32.20
		MinVolume	75.67	11531	11607	03:13:27	269789155	42.74e-6	1.5237	187.7	188.9	43.78
		ApproxMinVolume	75.80	11636	11712	03:15:12	271631213	42.84e-6	1.5239	189.4	190.7	44.08
	5	Recursive	72.76	7790	7863	02:11:03	181314233	42.97e-6	1.5150	126.8	128.0	29.43
		Recursive2	73.70	12257	12331	03:25:31	285505293	42.93e-6	1.5150	199.5	200.7	46.34

Table 38: Bissection of problem 2D with problem: 9, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	43.74e-3	43.77e-3	0.044	6201	7.053e-6	80.714	100.0	100.0	100.0
		Bernstein	691.8e-3	12.82e-3	704.7e-3	0.705	5255	2.439e-6	80.593	29.30	1610.0	84.74
		MinVariance	761.7e-3	12.93e-3	774.6e-3	0.775	5255	2.461e-6	80.595	29.57	1769.9	84.74
		BSplines	770.7e-3	15.80e-3	786.5e-3	0.786	6889	2.293e-6	80.623	36.12	1797.0	111.1
		MinNorm	762.0e-3	13.79e-3	775.8e-3	0.776	5255	2.624e-6	80.594	31.52	1772.5	84.74
		MinVolume	755.0e-3	13.01e-3	768.0e-3	0.768	5259	2.474e-6	80.597	29.75	1754.8	84.81
	3	ApproxMinVolume	745.9e-3	13.01e-3	759.0e-3	0.759	5259	2.475e-6	80.597	29.76	1734.1	84.81
		Recursive	742.6e-3	13.17e-3	755.8e-3	0.756	5255	2.506e-6	80.593	30.11	1726.8	84.74
		Recursive2	730.5e-3	13.07e-3	743.6e-3	0.744	5259	2.486e-6	80.593	29.89	1699.0	84.81
		Interval	28.85e-6	4.257	4.257		499955	8.515e-6	85.311	100.0	100.0	100.0
0.01	4	Bernstein	1.475	693.0e-3	2.168		113247	6.119e-6	85.168	16.28	50.93	22.65
		MinVariance	1.507	742.6e-3	2.249		121201	6.127e-6	85.172	17.44	52.83	24.24
		BSplines	1.422	1.352	2.774		241357	5.601e-6	85.215	31.76	65.16	48.28
		MinNorm	1.515	724.0e-3	2.239		117675	6.153e-6	85.170	17.01	52.59	23.54
		MinVolume	1.487	773.9e-3	2.261		130179	5.945e-6	85.175	18.18	53.12	26.04
		ApproxMinVolume	1.457	786.0e-3	2.243		130265	6.034e-6	85.175	18.46	52.70	26.06
	5	Recursive	1.454	696.7e-3	2.150		113301	6.149e-6	85.168	16.36	50.51	22.66
		Recursive2	1.456	693.7e-3	2.149		113401	6.117e-6	85.168	16.30	50.49	22.68
		Interval	41.96e-6	695.6	695.6	11.35	77288077	9.000e-6	100.24	100.0	100.0	100.0
		Bernstein	12.20	202.3	214.6	03:34	9213753	21.96e-6	100.11	29.09	30.84	11.92
0.1	2	MinVariance	15.72	259.2	275.0	04:34	10380873	24.97e-6	100.12	37.27	39.53	13.43
		BSplines	12.12	692.0	704.1	11:44	31847981	21.73e-6	100.19	99.48	101.2	41.21
		MinNorm	15.50	239.1	254.6	04:14	9832741	24.32e-6	100.12	34.38	36.61	12.72
		MinVolume	13.18	266.6	279.8	04:39	11579667	23.03e-6	100.12	38.33	40.23	14.98
		ApproxMinVolume	12.79	266.9	279.7	04:39	11610223	22.99e-6	100.13	38.37	40.21	15.02
		Recursive	15.38	220.5	235.9	03:55	9214625	23.93e-6	100.11	31.71	33.92	11.92
	3	Recursive2	16.04	214.8	230.8	03:50	9227713	23.28e-6	100.11	30.88	33.19	11.94
		Interval	26.00e-6	3816650	3816650	44:04:10:50	332508609898	11.48e-6	116.26	100.0	100.0	100.0
		Bernstein	72.03	898240	898240	10:09:30:40	25402855453	35.36e-6	116.06	23.53	23.53	7.640
		MinVariance	75.21	994446	994447	11:12:14:07	28243217283	35.21e-6	116.06	26.06	26.06	8.494
0.1	4	BSplines	72.18	2646170	2646170	30:15:02:50	79307433212	33.37e-6	116.16	69.33	69.33	23.85
		MinNorm	74.89	971299	971299	11:05:48:19	26920339237	36.08e-6	116.06	25.45	25.45	8.096
		MinVolume	73.73	1126030	1126030	13:00:47:10	3113385003	36.17e-6	116.07	29.50	29.50	9.363
		ApproxMinVolume	73.19	1100940	1100940	12:17:49:00	31210072477	35.28e-6	116.07	28.85	28.85	9.386
		Recursive	72.18	907914	907914	10:12:11:54	25402856395	35.74e-6	116.06	23.79	23.79	7.640
		Recursive2	72.48	896919	896919	10:09:08:39	25463250249	35.22e-6	116.06	23.50	23.50	7.658
	5	Interval	30.04e-6	9.795e-3	9.825e-3	0.010	1101	8.896e-6	82.162	100.0	100.0	100.0
		Bernstein	694.3e-3	5.069e-3	699.4e-3	0.699	845	5.999e-6	81.681	51.75	7118.9	76.75
		MinVariance	693.1e-3	5.367e-3	698.5e-3	0.698	849	6.322e-6	81.700	54.79	7109.2	77.11
		BSplines	683.4e-3	5.454e-3	688.8e-3	0.689	1001	5.448e-6	81.923	55.68	7011.0	90.92
0.1	2	MinNorm	669.0e-3	5.376e-3	674.4e-3	0.674	845	6.362e-6	81.692	54.89	6864.1	76.75
		MinVolume	657.8e-3	4.988e-3	662.8e-3	0.663	849	5.875e-6	81.718	50.92	6746.2	77.11
		ApproxMinVolume	684.3e-3	4.737e-3	689.0e-3	0.689	849	5.580e-6	81.719	48.36	7012.8	77.11
		Recursive	716.9e-3	4.742e-3	721.6e-3	0.722	845	5.612e-6	81.681	48.41	7345.0	76.75
		Recursive2	730.9e-3	5.018e-3	736.0e-3	0.736	849	5.910e-6	81.681	51.23	7490.7	77.11
		Interval	32.19e-6	368.2e-3	368.2e-3	0.368	42531	8.657e-6	87.099	100.0	100.0	100.0
	3	Bernstein	1.438	90.69e-3	1.528		13049	6.950e-6	85.900	24.63	415.1	30.68
		MinVariance	1.530	97.62e-3	1.628		13717	7.117e-6	85.929	26.51	442.0	32.25
		BSplines	1.445	155.3e-3	1.600		24337	6.380e-6	86.271	42.17	434.6	57.22
		MinNorm	1.514	96.11e-3	1.610		13567	7.084e-6	85.916	26.10	437.4	31.90
0.1	4	MinVolume	1.465	107.4e-3	1.573		14303	7.510e-6	85.957	29.17	427.1	33.63
		ApproxMinVolume	1.479	99.23e-3	1.578		14307	6.936e-6	85.958	26.95	428.5	33.64
		Recursive	1.469	88.11e-3	1.557		13071	6.741e-6	85.900	23.93	422.8	30.73
		Recursive2	1.490	92.24e-3	1.582		13283	6.944e-6	85.900	25.05	429.7	31.23
		Interval	30.99e-6	116.6	116.6	01:56	11876965	9.821e-6	102.12	100.0	100.0	100.0
		Bernstein	11.07	26.21	37.28		37.279	1140895	22.97e-6	101.19	22.47	31.96
0.1	5	MinVariance	14.40	32.57	46.97		46.969	1264369	25.76e-6	101.24	27.92	40.27
		BSplines	11.62	77.46	89.08	01:29	3338391	23.20e-6	101.78	66.41	76.37	28.11
		MinNorm	14.44	30.92	45.37		45.367	1204777	25.67e-6	101.22	26.51	38.89
		MinVolume	12.52	37.15	49.67		49.666	1309985	26.71e-6	101.28	31.85	42.58
		ApproxMinVolume	12.32	34.91	47.24		47.237	1394229	25.04e-6	101.28	29.93	40.50
		Recursive	14.76	28.30	43.07		43.067	1141885	24.79e-6	101.19	24.26	36.92
		Recursive2	15.47	29.71	45.18		45.178	1150469	25.82e-6	101.19	25.47	38.73
		Interval	34.00e-6	113499	113499	1:07:31:39	10093545464	11.24e-6	119.00	100.0	100.0	100.0
		Bernstein	89.55	36574	36663	10:11:03	906457201	40.35e-6	117.60	32.22	32.30	8.981
		MinVariance	75.23	40185	40261	11:11:01	997894823	40.27e-6	117.67	35.41	35.47	9.887
0.1	5	BSplines	95.11	96464	96464	1:02:47:44	2492665472	38.70e-6	118.42	84.99	84.99	24.70
		MinNorm	97.60	39116	39214	10:53:34	955524407	40.94e-6	117.64	34.46	34.55	9.467
		MinVolume	95.94	45460	45556	12:39:16	1089625957	41.72e-6	117.73	40.05	40.14	10.80
		ApproxMinVolume	96.10	44466	44562	12:22:42	1092053849	40.72e-6	117.73	39.18	39.26	10.82
		Recursive	94.56	36807	36901	10:15:01	906458069	40.61e-6	117.60	32.43	32.51	8.981
		Recursive2	94.62	37206	37300	10:21:40	920167267	40.43e-6	117.60	32.78	32.86	9.116

Table 39: Bisection of problem 2D with problem: 11, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	29.09e-6	48.25e-3	48.27e-3	0.048	5689	8.480e-6	56.017	100.0	100.0	100.0
		Bernstein	767.0e-3	15.29e-3	782.4e-3	0.782	6851	2.232e-6	56.017	31.69	1620.6	120.4
		MinVariance	765.6e-3	15.20e-3	780.8e-3	0.781	6851	2.219e-6	56.020	31.52	1617.5	120.4
		BSplines	761.5e-3	19.25e-3	780.8e-3	0.781	9469	2.033e-6	56.047	39.89	1617.4	166.4
		MinNorm	755.6e-3	16.02e-3	771.6e-3	0.772	6851	2.338e-6	56.019	33.20	1598.4	120.4
	3	MinVolume	755.8e-3	15.53e-3	771.3e-3	0.771	6851	2.266e-6	56.022	32.18	1597.8	120.4
		ApproxMinVolume	738.9e-3	14.45e-3	753.4e-3	0.753	6851	2.109e-6	56.022	29.96	1560.6	120.4
		Recursive	740.7e-3	15.04e-3	755.8e-3	0.756	6851	2.195e-6	56.017	31.16	1565.6	120.4
		Recursive2	736.0e-3	14.60e-3	750.6e-3	0.751	6851	2.130e-6	56.017	30.25	1554.8	120.4
		Interval	28.85e-6	433.1e-3	433.1e-3	0.433	50389	8.594e-6	66.191	100.0	100.0	100.0
0.01	4	Bernstein	1.433	136.0e-3	1.569	28091	4.841e-6	66.184	31.40	362.3	55.75	
		MinVariance	1.523	152.8e-3	1.676	1.676	31381	4.870e-6	66.188	35.29	386.9	62.28
		BSplines	1.429	324.6e-3	1.754	1.754	69753	4.653e-6	66.235	74.95	404.9	138.4
		MinNorm	1.487	140.5e-3	1.627	1.627	28841	4.870e-6	66.186	32.43	375.8	57.24
		MinVolume	1.475	163.5e-3	1.639	1.639	33783	4.838e-6	66.192	37.74	378.3	67.04
	5	ApproxMinVolume	1.480	163.8e-3	1.644	1.644	33831	4.841e-6	66.192	37.82	379.6	67.14
		Recursive	1.471	138.7e-3	1.610	1.610	28093	4.936e-6	66.184	32.02	371.6	55.75
		Recursive2	1.470	138.3e-3	1.608	1.608	28233	4.897e-6	66.184	31.93	371.4	56.03
		Interval	30.04e-6	1417	1417	23.37	150346653	9.430e-6	60.598	100.0	100.0	100.0
		Bernstein	11.66	549.3	560.9	09:20	25139993	21.85e-6	60.430	38.74	39.56	16.72
0.1	3	MinVariance	16.25	681.0	697.2	11:37	27868497	24.44e-6	60.436	48.03	49.18	18.54
		BSplines	12.29	1470	1482	24:42	72321471	20.33e-6	60.512	103.7	104.6	48.10
		MinNorm	15.94	651.4	667.3	11:07	26607425	24.48e-6	60.433	45.94	47.07	17.70
		MinVolume	13.44	702.5	715.9	11:55	30614197	22.95e-6	60.443	49.55	50.49	20.36
		ApproxMinVolume	13.28	713.7	727.0	12:06	30685117	23.26e-6	60.443	50.34	51.27	20.41
	4	Recursive	15.67	586.4	602.1	10:02	25141171	23.32e-6	60.430	41.36	42.47	16.72
		Recursive2	16.49	593.3	609.8	10:09	25175567	23.57e-6	60.430	41.85	43.01	16.75
		Interval	30.00e-6	170808	170808	1-23:26:48	15383108812	11.10e-6	68.184	100.0	100.0	100.0
		Bernstein	72.23	50650	50723	14:05:23	1358212637	37.29e-6	68.008	29.65	29.70	8.829
		MinVariance	74.74	58571	58646	16:17:26	1599006301	36.63e-6	68.018	34.29	34.33	10.39
0.05	2	BSplines	72.40	248033	248033	2-20:53:53	7452602707	33.28e-6	68.128	145.2	145.2	48.45
		MinNorm	75.14	55095	55170	15:19:30	1485401399	37.09e-6	68.013	32.26	32.30	9.656
		MinVolume	73.35	67899	67972	18:52:52	1856546063	36.57e-6	68.027	39.75	39.79	12.07
		ApproxMinVolume	73.20	64516	64589	17:56:29	1863535089	34.62e-6	68.027	37.77	37.81	12.11
		Recursive	72.20	49755	49828	13:50:28	1358757807	36.62e-6	68.008	29.13	29.17	8.833
	3	Recursive2	72.30	50615	50687	14:04:47	1372492605	36.88e-6	68.008	29.63	29.68	8.922
		Interval	30.99e-6	6.804e-3	6.835e-3	0.007	635	10.71e-6	57.100	100.0	100.0	100.0
		Bernstein	722.1e-3	4.600e-3	726.7e-3	0.727	669	6.876e-6	57.100	67.61	10632.2	105.4
		MinVariance	713.8e-3	4.508e-3	718.3e-3	0.718	669	6.738e-6	57.119	66.26	10509.3	105.4
		BSplines	721.9e-3	4.759e-3	726.7e-3	0.727	827	5.755e-6	57.342	69.95	10632.2	130.2
0.1	4	MinNorm	714.1e-3	3.952e-3	718.1e-3	0.718	669	5.907e-6	57.110	58.08	10506.4	105.4
		MinVolume	712.9e-3	4.763e-3	717.7e-3	0.718	669	7.119e-6	57.137	70.00	10499.9	105.4
		ApproxMinVolume	719.6e-3	4.364e-3	724.0e-3	0.724	669	6.523e-6	57.138	64.14	10591.9	105.4
		Recursive	728.6e-3	4.132e-3	732.7e-3	0.733	669	6.176e-6	57.100	60.73	10720.2	105.4
		Recursive2	723.0e-3	4.089e-3	727.1e-3	0.727	669	6.112e-6	57.100	60.10	10637.8	105.4
	5	Interval	28.13e-6	71.59e-3	71.62e-3	0.072	7639	9.372e-6	67.355	100.0	100.0	100.0
		Bernstein	1.454	27.98e-3	1.482	1.482	3781	7.399e-6	67.294	39.08	2069.3	49.50
		MinVariance	1.545	29.96e-3	1.575	1.575	4129	7.255e-6	67.327	41.84	2198.7	54.05
		BSplines	1.474	60.09e-3	1.534	1.534	8727	6.886e-6	67.709	83.94	2141.4	114.2
		MinNorm	1.533	28.87e-3	1.562	1.562	3891	7.419e-6	67.312	40.32	2181.0	50.94
0.5	2	MinVolume	1.466	32.06e-3	1.498	1.498	4435	7.228e-6	67.358	44.78	2091.3	58.06
		ApproxMinVolume	1.474	32.36e-3	1.506	1.506	4477	7.229e-6	67.359	45.21	2103.5	58.61
		Recursive	1.492	27.94e-3	1.520	1.520	3783	7.385e-6	67.294	39.02	2121.7	49.52
		Recursive2	1.500	30.27e-3	1.531	1.531	3911	7.740e-6	67.294	42.28	2137.1	51.20
		Interval	30.04e-6	61.70	61.70	01:01	6142375	10.04e-6	63.021	100.0	100.0	100.0
	3	Bernstein	11.00	33.35	44.36	44.356	1399089	23.84e-6	61.646	54.05	71.89	22.78
		MinVariance	14.46	38.02	52.48	52.476	1529451	24.86e-6	61.697	61.62	85.05	24.90
		BSplines	11.55	77.90	89.46	01:29	3479963	22.39e-6	62.298	126.3	145.0	56.66
		MinNorm	14.20	36.15	50.35	50.347	1470797	24.58e-6	61.674	58.59	81.60	23.95
		MinVolume	12.65	37.54	50.19	50.193	1660565	22.61e-6	61.746	60.84	81.35	27.03
0.1	4	ApproxMinVolume	12.33	40.47	52.80	52.798	1663061	24.34e-6	61.747	65.59	85.57	27.08
		Recursive	14.79	34.30	49.09	49.093	1400123	24.50e-6	61.646	55.60	79.57	22.79
		Recursive2	15.57	34.44	50.01	50.005	1411423	24.40e-6	61.646	55.81	81.05	22.98
		Interval	27.18e-6	29434	29434	08:10:34	2603706487	11.30e-6	71.090	100.0	100.0	100.0
		Bernstein	94.81	11565	11659	03:14:19	288983443	40.02e-6	69.785	39.29	39.61	11.10
	5	MinVariance	97.95	13135	13233	03:40:33	332202181	39.54e-6	69.861	44.63	44.96	12.76
		BSplines	95.19	45083	45179	12:32:59	1182102125	38.14e-6	70.743	153.2	153.5	45.40
		MinNorm	97.95	12736	12834	03:33:54	312037879	40.82e-6	69.826	43.27	43.60	11.98
		MinVolume	96.37	15124	15220	04:13:40	377164899	40.10e-6	69.932	51.38	51.71	14.49
		ApproxMinVolume	96.02	15067	15163	04:12:43	378359525	39.82e-6	69.934	51.19	51.52	14.53
0.05	2	Recursive	95.14	11803	11898	03:18:18	289393387	40.79e-6	69.785	40.10	40.42	11.11
		Recursive2	94.56	11867	11962	03:19:22	299896491	39.57e-6	69.785	40.32	40.64	11.52

Table 40: Bisection of problem 2D with problem: 12, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	29.09e-6	3.001e-3	3.030e-3	0.003	59	50.86e-6	infeasible	100.0	100.0	100.0
		Bernstein	705.3e-3	3.291e-3	708.6e-3	0.709	41	80.27e-6	infeasible	109.7	23386.4	69.49
		MinVariance	721.2e-3	3.261e-3	724.4e-3	0.724	41	79.54e-6	infeasible	108.7	23908.4	69.49
		BSplines	722.2e-3	3.203e-3	725.4e-3	0.725	41	78.13e-6	infeasible	106.7	23939.2	69.49
		MinNorm	729.7e-3	2.956e-3	732.7e-3	0.733	41	72.10e-6	infeasible	98.50	24180.8	69.49
	3	MinVolume	732.8e-3	3.252e-3	736.0e-3	0.736	41	79.32e-6	infeasible	108.4	24290.7	69.49
		ApproxMinVolume	734.1e-3	3.080e-3	737.2e-3	0.737	41	75.13e-6	infeasible	102.6	24329.1	69.49
		Recursive	726.1e-3	2.538e-3	728.6e-3	0.729	41	61.91e-6	infeasible	84.58	24046.3	69.49
		Recursive2	714.9e-3	3.242e-3	718.2e-3	0.718	41	79.07e-6	infeasible	108.0	23701.8	69.49
		Interval	28.85e-6	388.3e-3	388.3e-3	0.388	47091	8.246e-6	45.742	100.0	100.0	100.0
0.005	4	Bernstein	1.401	196.6e-3	1.598	1.598	42413	4.635e-6	45.738	50.62	411.4	90.07
		MinVariance	1.512	207.4e-3	1.719	1.719	44035	4.709e-6	45.742	53.40	442.6	93.51
		BSplines	1.460	523.3e-3	1.984	1.984	114637	4.565e-6	45.794	134.8	510.8	243.4
		MinNorm	1.520	203.7e-3	1.724	1.724	42977	4.740e-6	45.740	52.46	443.9	91.26
		MinVolume	1.460	224.4e-3	1.684	1.684	48729	4.605e-6	45.746	57.78	433.7	103.5
	5	ApproxMinVolume	1.477	226.9e-3	1.703	1.703	48845	4.645e-6	45.746	58.43	438.6	103.7
		Recursive	1.484	208.8e-3	1.693	1.693	42415	4.923e-6	45.738	53.78	436.0	90.07
		Recursive2	1.480	203.2e-3	1.684	1.684	42469	4.785e-6	45.738	52.34	433.5	90.18
		Interval	29.80e-6	241.2	241.2	0.041	24580165	9.811e-6	35.418	100.0	100.0	100.0
		Bernstein	11.48	36.11	47.59	47.593	1561325	23.13e-6	35.363	14.97	19.74	6.352
0.01	2	MinVariance	15.54	42.67	58.22	58.216	1713931	24.90e-6	35.368	17.69	24.14	6.973
		BSplines	12.02	105.9	117.9	01:57	4839681	21.87e-6	35.424	43.90	48.88	19.69
		MinNorm	14.98	40.34	55.32	55.322	1641753	24.57e-6	35.365	16.73	22.94	6.679
		MinVolume	13.08	46.43	59.52	59.515	1879393	24.71e-6	35.372	19.26	24.68	7.646
		ApproxMinVolume	12.71	45.78	58.49	58.487	1883601	24.30e-6	35.372	18.98	24.25	7.663
	3	Recursive	15.18	38.11	53.30	53.296	1562159	24.40e-6	35.363	15.80	22.10	6.355
		Recursive2	16.00	37.75	53.75	53.746	1566041	24.11e-6	35.363	15.65	22.29	6.371
		Interval	29.00e-6	3000410	3000410	34-17:26:50	260850666595	11.50e-6	35.082	100.0	100.0	100.0
		Bernstein	72.58	2117520	2117520	24-12:12:00	61306498963	34.54e-6	34.945	70.57	70.57	23.50
		MinVariance	75.23	2439340	2439340	28-05:35:40	68751908620	35.48e-6	34.953	81.30	81.30	26.36
0.05	4	BSplines	72.44	in progress	> 60 days							
		MinNorm	74.59	2285570	2285570	26-10:52:50	65282125196	35.01e-6	34.949	76.18	76.18	25.03
		MinVolume	73.44	2637810	2637810	30-12:43:30	76327487668	34.56e-6	34.961	87.91	87.91	29.26
		ApproxMinVolume	73.62	2647840	2647840	30-15:30:40	76528205832	34.60e-6	34.961	88.25	88.25	29.34
		Recursive	71.99	2144600	2144600	24-19:43:20	61374592875	34.94e-6	34.945	71.48	71.48	23.53
	5	Recursive2	71.96	2140970	2140970	24-18:42:50	61608458341	34.75e-6	34.945	71.36	71.36	23.62
		Interval	36.00e-6	3.017e-3	3.053e-3	0.003	59	51.13e-6	infeasible	100.0	100.0	100.0
		Bernstein	724.8e-3	2.839e-3	727.6e-3	0.728	41	69.25e-6	infeasible	94.10	23833.2	69.49
		MinVariance	719.6e-3	2.627e-3	722.3e-3	0.722	41	64.07e-6	infeasible	87.07	23658.4	69.49
		BSplines	714.5e-3	3.092e-3	717.7e-3	0.718	41	75.42e-6	infeasible	102.5	23506.9	69.49
0.1	2	MinNorm	714.6e-3	3.238e-3	717.8e-3	0.718	41	78.97e-6	infeasible	107.3	23512.7	69.49
		MinVolume	730.2e-3	2.911e-3	733.1e-3	0.733	41	71.00e-6	infeasible	96.49	24012.5	69.49
		ApproxMinVolume	727.5e-3	2.989e-3	730.5e-3	0.730	41	72.90e-6	infeasible	99.08	23927.5	69.49
		Recursive	731.2e-3	2.848e-3	734.0e-3	0.734	41	69.46e-6	infeasible	94.40	24043.5	69.49
		Recursive2	721.0e-3	3.965e-3	725.0e-3	0.725	41	96.70e-6	infeasible	131.4	23747.8	69.49
	3	Interval	32.19e-6	59.51e-3	59.54e-3	0.060	6985	8.520e-6	46.854	100.0	100.0	100.0
		Bernstein	1.442	31.37e-3	1.474	1.474	5031	6.236e-6	46.813	52.72	2474.8	72.03
		MinVariance	1.532	33.27e-3	1.566	1.566	5233	6.358e-6	46.849	55.90	2629.2	74.92
		BSplines	1.445	63.53e-3	1.508	1.508	11353	5.596e-6	47.265	106.7	2533.2	162.5
		MinNorm	1.524	31.97e-3	1.556	1.556	5121	6.243e-6	46.833	53.72	2613.3	73.31
0.5	4	MinVolume	1.467	35.01e-3	1.502	1.502	5735	6.105e-6	46.883	58.83	2522.9	82.10
		ApproxMinVolume	1.432	35.02e-3	1.467	1.467	5739	6.103e-6	46.884	58.85	2463.9	82.16
		Recursive	1.496	32.88e-3	1.529	1.529	5033	6.533e-6	46.813	55.25	2567.4	72.05
		Recursive2	1.499	31.78e-3	1.531	1.531	5055	6.287e-6	46.813	53.40	2571.0	72.37
		Interval	29.09e-6	19.38	19.38	19.376	2000039	9.688e-6	36.786	100.0	100.0	100.0
	5	Bernstein	11.15	6.876	18.02	18.023	286229	24.02e-6	36.315	35.49	93.02	14.31
		MinVariance	14.46	8.352	22.82	22.817	312363	26.74e-6	36.354	43.11	117.8	15.62
		BSplines	11.68	17.66	29.33	29.335	750903	23.52e-6	36.812	91.14	151.4	37.54
		MinNorm	14.41	7.739	22.15	22.146	300317	25.77e-6	36.337	39.94	114.3	15.02
		MinVolume	12.58	8.639	21.22	21.217	338683	25.51e-6	36.392	44.59	109.5	16.93
1	2	ApproxMinVolume	12.53	8.701	21.23	21.235	339375	25.64e-6	36.392	44.91	109.6	16.97
		Recursive	14.74	7.528	22.26	22.264	286901	26.24e-6	36.315	38.85	114.9	14.34
		Recursive2	15.75	7.382	23.13	23.134	290275	25.43e-6	36.315	38.10	119.4	14.51
		Interval	47.92e-6	17095	17095	04:44:55	1515345213	11.28e-6	37.512	100.0	100.0	100.0
		Bernstein	97.22	21263	21361	05:56:01	541219863	39.29e-6	36.421	124.4	125.0	35.72
	3	MinVariance	99.69	23203	23303	06:28:23	584284547	39.71e-6	36.485	135.7	136.3	38.56
		BSplines	97.43	43533	43631	12:07:11	1225240721	35.53e-6	37.240	254.7	255.2	80.86
		MinNorm	99.19	22124	22224	06:10:24	564406655	39.20e-6	36.456	129.4	130.0	37.25
		MinVolume	98.03	24188	24286	06:44:46	626832997	38.59e-6	36.545	141.5	142.1	41.37
		ApproxMinVolume	98.24	24568	24666	06:51:06	627964253	39.12e-6	36.547	143.7	144.3	41.44
4	4	Recursive	96.13	21070	21166	05:52:46	542379289	38.85e-6	36.421	123.3	123.8	35.79
		Recursive2	96.15	21614	21710	06:01:50	554853507	38.95e-6	36.421	126.4	127.0	36.62

Table 41: Bisection of problem 2D with problem: 13, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	30.99e-6	36.02e-3	36.05e-3	0.036	4823	7.468e-6	83.601	100.0	100.0	100.0
		Bernstein	854.3e-3	9.913e-3	864.2e-3	0.864	2809	3.529e-6	83.541	27.52	2397.3	58.24
		MinVariance	923.4e-3	10.50e-3	933.9e-3	0.934	2875	3.651e-6	83.543	29.15	2590.7	59.61
		BSplines	867.2e-3	17.19e-3	884.4e-3	0.884	4905	3.504e-6	83.571	47.72	2453.4	101.7
		MinNorm	911.1e-3	11.01e-3	922.1e-3	0.922	2843	3.872e-6	83.542	30.56	2558.0	58.95
		MinVolume	887.3e-3	11.06e-3	898.3e-3	0.898	3021	3.663e-6	83.546	30.72	2492.1	62.64
		ApproxMinVolume	890.7e-3	11.21e-3	901.9e-3	0.902	3029	3.702e-6	83.546	31.13	2502.0	62.80
	3	Recursive	864.6e-3	10.05e-3	874.7e-3	0.875	2939	3.421e-6	83.541	27.91	2426.4	60.94
		Recursive2	860.1e-3	11.09e-3	871.3e-3	0.871	3059	3.626e-6	83.541	30.80	2416.9	63.43
		Interval	24.08e-6	1.774	1.774		213249	8.320e-6	86.025	100.0	100.0	100.0
0.01	4	Bernstein	3.369	606.7e-3	3.976	3.976	55595	10.91e-6	85.877	34.20	224.1	26.07
		MinVariance	4.586	728.3e-3	5.314	5.314	62805	11.60e-6	85.881	41.05	299.5	29.45
		BSplines	3.517	2.367	5.885	5.885	206451	11.47e-6	85.976	133.4	331.7	96.81
		MinNorm	4.375	716.2e-3	5.091	5.091	59763	11.98e-6	85.879	40.37	287.0	28.02
		MinVolume	3.914	814.5e-3	4.729	4.729	69777	11.67e-6	85.884	45.91	266.5	32.72
		ApproxMinVolume	3.886	813.8e-3	4.700	4.700	69965	11.63e-6	85.884	45.87	264.9	32.81
		Recursive	3.862	653.2e-3	4.515	4.515	58397	11.19e-6	85.877	36.82	254.5	27.38
	5	Recursive2	4.405	664.6e-3	5.070	5.070	58463	11.37e-6	85.877	37.46	285.7	27.42
		Interval	31.95e-6	1013	1013	16.53	107303901	9.447e-6	100.93	100.0	100.0	100.0
		Bernstein	11.94	270.0	282.0	0.441	9471097	28.51e-6	100.75	26.64	27.82	8.826
0.05	2	MinVariance	16.39	364.6	381.0	0.621	11603683	31.42e-6	100.77	35.97	37.58	10.81
		BSplines	12.30	1768	1780	29.40	67821979	26.08e-6	100.89	174.5	175.7	63.21
		MinNorm	15.79	328.3	344.1	0.544	10650391	30.83e-6	100.76	32.39	33.94	9.925
		MinVolume	13.62	417.0	430.6	0.710	14026139	29.73e-6	100.78	41.13	42.48	13.07
		ApproxMinVolume	13.42	415.6	429.0	0.708	14085325	29.50e-6	100.78	40.99	42.32	13.13
		Recursive	16.50	321.3	337.9	0.537	10779077	29.81e-6	100.75	31.70	33.33	10.05
		Recursive2	16.47	339.4	355.9	0.555	11136901	30.48e-6	100.75	33.48	35.11	10.38
	3	Interval	25.00e-6	1995170	1995170	> 60 days	173200756883	11.52e-6	116.70	100.0	100.0	100.0
		Bernstein	73.67	661458	661458	7-15:44:18	13045910696	50.70e-6	116.43	33.15	33.15	7.532
		MinVariance	77.92	886887	886887	10-06:21:27	17189193207	51.60e-6	116.44	44.45	44.45	9.924
0.1	4	BSplines	73.32	in progress	> 60 days							
		MinNorm	77.22	772899	772899	8-22:41:39	15174903006	50.93e-6	116.44	38.74	38.74	8.761
		MinVolume	75.53	1092440	1092440	12-15:27:20	21673427482	50.40e-6	116.46	54.75	54.75	12.51
		ApproxMinVolume	75.42	1100950	1100950	12-17:49:10	21786841964	50.53e-6	116.46	55.18	55.18	12.58
		Recursive	74.02	749353	749354	8-16:09:14	14719896737	50.91e-6	116.43	37.56	37.56	8.499
		Recursive2	74.00	737086	737086	8-12:44:46	14436020885	51.06e-6	116.43	36.94	36.94	8.335
		Interval	27.89e-6	9.498e-3	9.526e-3	0.010	1021	9.303e-6	84.553	100.0	100.0	100.0
	5	Bernstein	849.4e-3	5.055e-3	854.5e-3	0.854	691	7.315e-6	84.078	53.22	8970.2	67.68
		MinVariance	903.7e-3	5.640e-3	909.4e-3	0.909	723	7.801e-6	84.097	59.38	9546.3	70.81
		BSplines	852.5e-3	7.858e-3	860.4e-3	0.860	1319	5.958e-6	84.792	82.73	9032.0	129.2
0.15	2	MinNorm	910.3e-3	5.608e-3	916.0e-3	0.916	705	7.955e-6	84.088	59.05	9615.5	69.05
		MinVolume	903.7e-3	5.788e-3	909.5e-3	0.909	779	7.430e-6	84.115	60.94	9547.4	76.30
		ApproxMinVolume	896.1e-3	5.675e-3	901.8e-3	0.902	787	7.211e-6	84.115	59.75	9466.5	77.08
		Recursive	876.4e-3	5.653e-3	882.1e-3	0.882	809	6.988e-6	84.078	59.52	9259.9	79.24
		Recursive2	869.8e-3	6.037e-3	875.8e-3	0.876	927	6.512e-6	84.078	63.56	9194.2	90.79
		Interval	27.89e-6	339.1e-3	339.1e-3	0.339	40055	8.465e-6	87.774	100.0	100.0	100.0
		Bernstein	3.233	134.8e-3	3.367	3.367	11107	12.14e-6	86.563	39.76	993.0	27.73
0.2	3	MinVariance	4.592	162.8e-3	4.754	4.754	13529	12.03e-6	86.773	48.00	1402.0	33.78
		BSplines	3.541	629.1e-3	4.170	4.170	51893	12.12e-6	87.383	185.5	1229.7	129.6
		MinNorm	4.493	154.1e-3	4.647	4.647	12393	12.44e-6	86.578	45.45	1370.5	30.94
	4	MinVolume	3.915	201.7e-3	4.116	4.116	15435	13.07e-6	86.800	59.49	1213.9	38.53
		ApproxMinVolume	3.930	195.7e-3	4.126	4.126	15479	12.64e-6	86.801	57.70	1216.7	38.64
		Recursive	3.910	174.4e-3	4.084	4.084	13587	12.84e-6	86.563	51.43	1204.4	33.92
	5	Recursive2	4.176	176.0e-3	4.352	4.352	13837	12.72e-6	86.563	51.90	1283.2	34.55
		Interval	32.90e-6	110.7	110.7	01:50	11096569	9.973e-6	103.16	100.0	100.0	100.0
		Bernstein	11.56	29.44	41.01	41.007	1021607	28.82e-6	101.86	26.61	37.06	9.207
0.25	2	MinVariance	15.33	39.67	55.00	55.001	1218059	32.57e-6	101.91	35.85	49.70	10.98
		BSplines	12.00	233.9	245.9	04:05	8057913	29.03e-6	103.03	211.4	222.2	72.62
		MinNorm	15.06	33.45	48.51	48.509	1115049	30.00e-6	101.89	30.23	43.84	10.05
		MinVolume	13.12	43.06	56.18	56.182	1534897	28.05e-6	101.96	38.91	50.77	13.83
		ApproxMinVolume	13.26	47.12	60.38	01:00	1542431	30.55e-6	101.97	42.58	54.56	13.90
		Recursive	16.10	59.20	75.31	01:15	1922313	30.80e-6	101.86	53.50	68.05	17.32
		Recursive2	16.05	61.81	77.87	01:17	1989391	31.07e-6	101.86	55.86	70.36	17.93
	3	Interval	34.00e-6	98026	98026	1-03:13:46	8552704334	11.46e-6	120.04	100.0	100.0	100.0
		Bernstein	96.61	30828	30925	08:35:25	583952351	52.79e-6	118.05	31.45	31.55	6.828
		MinVariance	100.9	40480	40581	11:16:21	754752651	53.63e-6	118.16	41.30	41.40	8.825
0.3	4	BSplines	96.67	410518	410518	4-18:01:58	7887363117	52.05e-6	120.02	418.8	418.8	92.22
		MinNorm	100.5	35583	35683	09:54:43	662969935	53.67e-6	118.11	36.30	36.40	7.752
		MinVolume	99.25	52627	52726	14:38:46	995686331	52.86e-6	118.31	53.69	53.79	11.64
	5	ApproxMinVolume	99.08	52002	52101	14:28:21	1002012491	51.90e-6	118.31	53.05	53.15	11.72
		Recursive	96.82	67647	67744	18:49:04	1282739763	52.74e-6	118.05	69.01	69.11	15.00
		Recursive2	98.12	55330	55429	15:23:49	1052673995	52.56e-6	118.05	56.44	56.54	12.31

Table 42: Bisection of problem 2D with problem: 14, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	50.07e-6	39.85e-3	39.90e-3	0.040	5401	7.379e-6	56.197	100.0	100.0	100.0
		Bernstein	865.1e-3	15.43e-3	880.6e-3	0.881	6275	2.458e-6	56.197	38.71	2206.8	116.2
		MinVariance	945.0e-3	15.05e-3	960.1e-3	0.960	6289	2.393e-6	56.200	37.77	2406.2	116.4
		BSplines	862.2e-3	22.87e-3	885.1e-3	0.885	9065	2.523e-6	56.287	57.39	2218.2	167.8
		MinNorm	910.8e-3	16.04e-3	926.8e-3	0.927	6279	2.555e-6	56.199	40.26	2322.7	116.3
		MinVolume	898.5e-3	15.74e-3	914.3e-3	0.914	6335	2.485e-6	56.202	39.50	2291.4	117.3
		ApproxMinVolume	882.3e-3	16.42e-3	898.8e-3	0.899	6335	2.592e-6	56.202	41.20	2252.5	117.3
	3	Recursive	870.0e-3	16.40e-3	886.4e-3	0.886	6341	2.587e-6	56.197	41.16	2221.5	117.4
		Recursive2	860.8e-3	15.76e-3	876.6e-3	0.877	6385	2.468e-6	56.197	39.54	2196.8	118.2
		Interval	25.99e-6	258.3e-3	258.3e-3	0.258	31049	8.318e-6	66.964	100.0	100.0	100.0
		Bernstein	3.341	122.1e-3	3.463	3.463	18367	6.647e-6	66.956	47.28	1340.9	59.15
		MinVariance	4.432	146.6e-3	4.579	4.579	20859	7.029e-6	66.960	56.77	1772.7	67.18
		BSplines	3.545	446.6e-3	3.991	3.991	56599	7.890e-6	67.056	172.9	1545.4	182.3
		MinNorm	4.264	129.9e-3	4.394	4.394	18979	6.846e-6	66.958	50.31	1701.1	61.13
		MinVolume	3.950	159.9e-3	4.110	4.110	22923	6.975e-6	66.964	61.91	1591.2	73.83
	4	ApproxMinVolume	4.001	160.8e-3	4.161	4.161	23005	6.991e-6	66.964	62.28	1611.2	74.09
		Recursive	3.879	136.4e-3	4.016	4.016	19353	7.050e-6	66.956	52.83	1554.8	62.33
		Recursive2	4.390	140.7e-3	4.531	4.531	19529	7.206e-6	66.956	54.49	1754.2	62.90
		Interval	27.18e-6	929.3	929.3	15.29	96544501	9.626e-6	61.348	100.0	100.0	100.0
		Bernstein	11.96	379.3	391.3	06.31	13437027	28.23e-6	61.169	40.82	42.11	13.92
		MinVariance	16.43	531.7	548.2	09.08	16759111	31.73e-6	61.181	57.22	58.99	17.36
		BSplines	12.44	2547	2560	42.40	97052207	26.25e-6	61.321	274.2	275.5	100.5
	5	MinNorm	15.82	478.5	494.3	08.14	15145027	31.60e-6	61.175	51.49	53.19	15.69
		MinVolume	13.70	593.9	607.6	10.07	20367283	29.16e-6	61.193	63.90	65.38	21.10
		ApproxMinVolume	13.62	577.5	591.1	09.51	20450643	28.24e-6	61.193	62.14	63.61	21.18
		Recursive	16.31	422.4	438.7	07.18	14214587	29.72e-6	61.169	45.45	47.21	14.72
		Recursive2	16.31	421.2	437.5	07:17	14326389	29.40e-6	61.169	45.32	47.08	14.84
		Interval	35.00e-6	185775	185775	2-03:36:15	15954957599	11.64e-6	69.047	100.0	100.0	100.0
		Bernstein	73.51	66669	66743	18:32:23	1340720711	49.73e-6	68.855	35.89	35.93	8.403
	2	MinVariance	77.98	92447	92447	1:01:40:47	1809584420	51.09e-6	68.873	49.76	49.76	11.34
		BSplines	73.81	1054060	1054060	12-04:47:40	21371905806	49.32e-6	69.079	567.4	567.4	134.0
		MinNorm	77.68	77880	77958	21:39:18	1584734657	49.14e-6	68.865	41.92	41.96	9.933
		MinVolume	75.46	117706	117706	1:08:41:46	2376185302	49.54e-6	68.890	63.36	63.36	14.89
		ApproxMinVolume	75.70	118583	118584	1-08:56:24	2389582382	49.63e-6	68.890	63.83	63.83	14.98
		Recursive	74.75	77566	77640	21:34:00	1534512633	50.55e-6	68.855	41.75	41.79	9.618
		Recursive2	74.06	72662	72736	20:12:16	1499283151	48.46e-6	68.855	39.11	39.15	9.397
0.01	2	Interval	27.18e-6	7.520e-3	7.547e-3	0.008	701	10.73e-6	57.100	100.0	100.0	100.0
		Bernstein	849.6e-3	4.769e-3	854.3e-3	0.854	603	7.909e-6	57.100	63.42	11320.2	86.02
		MinVariance	915.6e-3	4.391e-3	920.0e-3	0.920	605	7.258e-6	57.119	58.39	12189.5	86.31
		BSplines	761.4e-3	5.890e-3	767.3e-3	0.767	949	6.207e-6	57.825	78.33	10167.2	135.4
		MinNorm	780.1e-3	4.482e-3	784.6e-3	0.785	601	7.458e-6	57.110	59.60	10395.6	85.73
		MinVolume	882.5e-3	4.833e-3	887.3e-3	0.887	635	7.611e-6	57.137	64.27	11757.2	90.58
		ApproxMinVolume	882.6e-3	5.047e-3	887.7e-3	0.888	635	7.948e-6	57.138	67.12	11761.6	90.58
	3	Recursive	864.6e-3	6.187e-3	870.8e-3	0.871	669	9.248e-6	57.100	82.27	11538.6	95.44
		Recursive2	853.5e-3	5.786e-3	859.3e-3	0.859	711	8.138e-6	57.100	76.94	11385.9	101.4
		Interval	36.00e-6	86.95e-3	86.99e-3	0.087	9417	9.233e-6	68.518	100.0	100.0	100.0
		Bernstein	3.372	52.88e-3	3.425	3.425	4533	11.66e-6	68.447	60.81	3937.7	48.14
		MinVariance	4.538	60.45e-3	4.599	4.599	5317	11.37e-6	68.480	69.52	5287.0	56.46
		BSplines	3.481	301.1e-3	3.783	3.783	26083	11.54e-6	69.244	346.3	4348.4	277.0
		MinNorm	4.470	61.45e-3	4.532	4.532	4839	12.70e-6	68.465	70.68	5209.5	51.39
	4	MinVolume	3.940	78.09e-3	4.018	4.018	6345	12.31e-6	68.511	89.81	4619.4	67.38
		ApproxMinVolume	3.865	79.24e-3	3.945	3.945	6435	12.31e-6	68.512	91.13	4534.9	68.33
		Recursive	3.832	72.56e-3	3.904	3.904	5993	12.11e-6	68.447	83.45	4488.3	63.64
		Recursive2	4.240	70.45e-3	4.311	4.311	6063	11.62e-6	68.447	81.02	4955.7	64.38
		Interval	30.99e-6	51.25	51.25	51.246	5177071	9.899e-6	63.828	100.0	100.0	100.0
		Bernstein	11.55	28.83	40.38	40.381	1027045	28.07e-6	62.291	56.25	78.80	19.84
		MinVariance	15.29	39.34	54.63	54.631	1223649	32.15e-6	62.387	76.77	106.6	23.64
	5	BSplines	12.11	177.6	189.7	03:09	6070365	29.26e-6	63.535	346.5	370.2	117.3
		MinNorm	14.87	36.03	50.90	50.903	1125257	32.02e-6	62.323	70.31	99.33	21.74
		MinVolume	13.25	45.99	59.25	59.247	1480005	31.08e-6	62.454	89.75	115.6	28.59
		ApproxMinVolume	13.18	45.26	58.44	58.444	1485739	30.46e-6	62.457	88.32	114.0	28.70
		Recursive	15.90	41.83	57.74	57.738	1385343	30.20e-6	62.291	81.63	112.7	26.76
		Recursive2	15.95	41.47	57.42	57.422	1332547	31.12e-6	62.291	80.92	112.1	25.74
		Interval	30.99e-6	27400	27400	07:36:40	2377764825	11.52e-6	72.049	100.0	100.0	100.0
	3	Bernstein	97.61	10874	10972	03:02:52	209003211	52.03e-6	70.530	39.69	40.04	8.790
		MinVariance	102.0	14916	15018	04:10:18	283306471	52.65e-6	70.642	54.44	54.81	11.91
		BSplines	97.79	177693	177693	2-01:21:33	3426129813	51.86e-6	72.337	648.5	648.5	144.1
		MinNorm	101.6	12595	12697	03:31:37	241407431	52.18e-6	70.568	45.97	46.34	10.15
		MinVolume	100.2	19430	19531	05:25:31	379992167	51.14e-6	70.758	70.91	71.28	15.98
		ApproxMinVolume	100.2	19540	19640	05:27:20	382600331	51.07e-6	70.760	71.32	71.68	16.09
		Recursive	95.87	20765	20861	05:47:41	410978353	50.53e-6	70.530	75.79	76.14	17.28
		Recursive2	95.65	16973	17069	04:44:29	334350021	50.77e-6	70.530	61.95	62.30	14.06

Table 43: Bisection of problem 2D with problem: 15, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	25.03e-6	3.119e-3	3.144e-3	0.003	89	35.04e-6	infeasible	100.0	100.0	100.0
		Bernstein	855.6e-3	3.958e-3	859.6e-3	0.860	65	60.89e-6	infeasible	126.9	27341.1	73.03
		MinVariance	918.3e-3	3.876e-3	922.1e-3	0.922	61	63.54e-6	infeasible	124.3	29330.0	68.54
		BSplines	874.8e-3	3.362e-3	878.2e-3	0.878	111	30.29e-6	infeasible	107.8	27931.3	124.7
		MinNorm	910.2e-3	3.517e-3	913.7e-3	0.914	59	59.61e-6	infeasible	112.8	29061.8	66.29
		MinVolume	882.7e-3	3.689e-3	886.4e-3	0.886	69	53.46e-6	infeasible	118.3	28194.1	77.53
	3	ApproxMinVolume	879.9e-3	3.200e-3	883.1e-3	0.883	69	46.38e-6	infeasible	102.6	28088.0	77.53
		Recursive	800.3e-3	3.423e-3	803.7e-3	0.804	91	37.62e-6	infeasible	109.7	25563.4	102.2
		Recursive2	778.2e-3	4.367e-3	782.5e-3	0.783	119	36.70e-6	infeasible	140.0	24889.8	133.7
		Interval	24.80e-6	463.5e-3	463.6e-3	0.464	53441	8.674e-6	47.608	100.0	100.0	100.0
0.01	4	Bernstein	3.390	288.9e-3	3.679	3.679	41013	7.045e-6	47.567	62.33	793.7	76.74
		MinVariance	4.694	334.9e-3	5.029	5.029	43683	7.667e-6	47.571	72.26	1084.8	81.74
		BSplines	3.548	1.057	4.605	4.605	132407	7.983e-6	47.694	228.0	993.5	247.8
		MinNorm	4.513	310.3e-3	4.824	4.824	42199	7.353e-6	47.569	66.94	1040.6	78.96
		MinVolume	3.923	362.9e-3	4.286	4.286	49189	7.378e-6	47.575	78.29	924.5	92.04
		ApproxMinVolume	3.884	365.7e-3	4.249	4.249	49229	7.429e-6	47.576	78.90	916.7	92.12
	5	Recursive	3.880	292.2e-3	4.172	4.172	41695	7.009e-6	47.567	63.04	900.0	78.02
		Recursive2	4.332	319.3e-3	4.651	4.651	42411	7.528e-6	47.567	68.88	1003.4	79.36
		Interval	33.86e-6	95.09	95.09	01:35	9088859	10.46e-6	35.729	100.0	100.0	100.0
		Bernstein	11.93	33.32	45.25	45.247	1262695	26.39e-6	35.671	35.04	47.58	13.89
0.1	2	MinVariance	16.46	47.02	63.48	01:03	1572127	29.91e-6	35.679	49.45	66.76	17.30
		BSplines	12.47	292.3	304.8	05:04	10251133	28.51e-6	35.777	307.4	320.5	112.8
		MinNorm	15.73	42.35	58.09	58.089	1449681	29.22e-6	35.677	44.54	61.09	15.95
		MinVolume	13.24	53.45	66.69	01:06	1881215	28.41e-6	35.685	56.21	70.14	20.70
		ApproxMinVolume	12.91	48.93	61.84	01:01	1889165	25.90e-6	35.685	51.45	65.03	20.79
		Recursive	15.73	40.61	56.33	56.335	1408319	28.84e-6	35.671	42.71	59.24	15.50
	3	Recursive2	15.62	37.55	53.16	53.164	1327707	28.28e-6	35.671	39.48	55.91	14.61
		Interval	29.00e-6	866015	866015	10:00:33:35	75199201798	11.52e-6	35.750	100.0	100.0	100.0
		Bernstein	73.44	716244	716244	8-06:57:24	14233161783	50.32e-6	35.610	82.71	82.71	18.93
		MinVariance	77.30	976996	976996	11-07:23:16	18975920139	51.49e-6	35.626	112.8	112.8	25.23
0.1	4	BSplines	73.86	in progress	> 60 days							
		MinNorm	77.87	854982	854982	9-21:29:42	16650102303	51.35e-6	35.618	98.73	98.73	22.14
		MinVolume	75.83	1237620	1237620	14-07:47:00	24436785553	50.65e-6	35.641	142.9	142.9	32.50
		ApproxMinVolume	75.14	1251030	1251030	14-11:30:30	24594361719	50.87e-6	35.642	144.5	144.5	32.71
		Recursive	73.78	772313	772313	8-22:31:53	15310245251	50.44e-6	35.610	89.18	89.18	20.36
		Recursive2	74.26	749059	749059	8-16:04:19	14828816662	50.51e-6	35.610	86.49	86.49	19.72
	5	Interval	27.18e-6	2.887e-3	2.914e-3	0.003	89	32.44e-6	infeasible	100.0	100.0	100.0
		Bernstein	832.8e-3	3.245e-3	836.0e-3	0.836	65	49.92e-6	infeasible	112.4	28687.6	73.03
		MinVariance	896.5e-3	3.170e-3	899.7e-3	0.900	61	51.97e-6	infeasible	109.8	30874.2	68.54
		BSplines	844.1e-3	3.699e-3	847.9e-3	0.848	111	33.32e-6	infeasible	128.1	29094.0	124.7
0.1	2	MinNorm	896.7e-3	4.362e-3	901.1e-3	0.901	59	73.93e-6	infeasible	151.1	30920.2	66.29
		MinVolume	886.1e-3	5.657e-3	891.8e-3	0.892	69	81.99e-6	infeasible	196.0	30602.2	77.53
		ApproxMinVolume	882.8e-3	4.285e-3	887.1e-3	0.887	69	62.10e-6	infeasible	148.4	30441.5	77.53
		Recursive	860.2e-3	4.379e-3	864.6e-3	0.865	91	48.12e-6	infeasible	151.7	29668.2	102.2
		Recursive2	866.0e-3	3.594e-3	869.6e-3	0.870	119	30.20e-6	infeasible	124.5	29841.9	133.7
	3	Interval	30.04e-6	82.68e-3	82.71e-3	0.083	9493	8.709e-6	49.139	100.0	100.0	100.0
		Bernstein	3.281	56.38e-3	3.338	3.338	5891	9.570e-6	48.529	68.19	4035.5	62.06
		MinVariance	4.611	63.06e-3	4.674	4.674	6441	9.790e-6	48.565	76.27	5651.0	67.85
		BSplines	3.513	201.9e-3	3.715	3.715	20773	9.717e-6	49.543	244.2	4492.0	218.8
0.1	4	MinNorm	4.383	58.80e-3	4.442	4.442	6151	9.560e-6	48.549	71.13	5371.0	64.80
		MinVolume	3.872	79.50e-3	3.951	3.951	7877	10.09e-6	48.882	96.15	4777.3	82.98
		ApproxMinVolume	3.767	75.22e-3	3.842	3.842	7887	9.537e-6	48.882	90.98	4645.6	83.08
		Recursive	3.868	66.66e-3	3.935	3.935	6561	10.16e-6	48.529	80.62	4757.9	69.11
		Recursive2	4.343	73.77e-3	4.416	4.416	7253	10.17e-6	48.529	89.23	5339.8	76.40
		Interval	31.95e-6	78.05	78.05	01:18	7838819	9.957e-6	37.082	100.0	100.0	100.0
	5	Bernstein	11.69	14.23	25.92	25.920	487613	29.18e-6	36.580	18.23	33.21	6.220
		MinVariance	15.51	19.68	35.19	35.189	602931	32.65e-6	36.618	25.22	45.08	7.692
		BSplines	12.01	103.2	115.2	01:55	3386455	30.46e-6	37.505	132.2	147.5	43.20
		MinNorm	14.78	17.69	32.47	32.471	538937	32.83e-6	36.601	22.67	41.60	6.875
0.1	2	MinVolume	13.36	22.91	36.27	36.272	725055	31.60e-6	36.702	29.35	46.47	9.250
		ApproxMinVolume	13.12	22.90	36.02	36.024	727749	31.47e-6	36.703	29.34	46.15	9.284
		Recursive	15.99	21.04	37.03	37.027	680775	30.91e-6	36.580	26.96	47.44	8.685
		Recursive2	15.80	18.71	34.51	34.514	583135	32.09e-6	36.580	23.98	44.22	7.439
		Interval	30.04e-6	14296	14296	03:58:16	1253896755	11.40e-6	38.245	100.0	100.0	100.0
		Bernstein	95.20	18616	18711	05:11:51	353805779	52.62e-6	37.086	130.2	130.9	28.22
0.1	3	MinVariance	98.99	23482	23581	06:33:01	434809703	54.01e-6	37.202	164.3	164.9	34.68
		BSplines	96.14	115764	115764	1-08:09:24	2204613390	52.51e-6	38.704	809.7	809.7	175.8
		MinNorm	98.85	21223	21322	05:55:22	395877979	53.61e-6	37.151	148.5	149.1	31.57
		MinVolume	97.84	27058	27156	07:32:36	521431577	51.89e-6	37.312	189.3	189.3	41.58
	4	ApproxMinVolume	96.05	27740	27836	07:43:56	523421895	53.00e-6	37.313	194.0	194.7	41.74
		Recursive	94.16	25520	25614	07:06:54	478738743	53.31e-6	37.086	178.5	179.2	38.18
		Recursive2	94.53	22335	22430	06:13:50	417985929	53.44e-6	37.086	156.2	156.9	33.33

Table 44: Bisection of problem 2D with problem: 16, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	41.01e-6	39.26e-3	39.30e-3	0.039	6513	6.027e-6	79.256	100.0	100.0	100.0
		Bernstein	846.4e-3	16.35e-3	862.8e-3	0.863	5035	3.248e-6	79.195	41.66	2195.6	77.31
		MinVariance	938.5e-3	16.45e-3	954.9e-3	0.955	5233	3.143e-6	79.197	41.90	2430.0	80.35
		BSplines	889.8e-3	28.30e-3	918.1e-3	0.918	8647	3.273e-6	79.286	72.09	2336.4	132.8
		MinNorm	966.3e-3	17.23e-3	983.5e-3	0.984	5101	3.377e-6	79.196	43.89	2502.9	78.32
		MinVolume	914.6e-3	17.53e-3	932.2e-3	0.932	5431	3.228e-6	79.199	44.66	2372.1	83.39
	3	ApproxMinVolume	889.6e-3	17.80e-3	907.4e-3	0.907	5435	3.275e-6	79.199	45.35	2309.1	83.45
		Recursive	871.8e-3	16.07e-3	887.9e-3	0.888	5145	3.123e-6	79.195	40.94	2259.4	79.00
		Recursive2	870.1e-3	17.79e-3	887.9e-3	0.888	5271	3.375e-6	79.195	45.32	2259.5	80.93
		Interval	31.95e-6	1.802	1.802	1.802	234993	7.670e-6	80.820	100.0	100.0	100.0
0.01	4	Bernstein	3.385	642.8e-3	4.028	4.028	66595	9.652e-6	80.719	35.66	223.4	28.34
		MinVariance	4.672	775.2e-3	5.447	5.447	74839	10.36e-6	80.723	43.01	302.2	31.85
		BSplines	3.578	2.791	6.368	6.368	255429	10.92e-6	80.806	154.8	353.3	108.7
		MinNorm	4.533	797.0e-3	5.330	5.330	71603	11.13e-6	80.722	44.22	295.7	30.47
		MinVolume	3.897	872.2e-3	4.769	4.769	84159	10.36e-6	80.727	48.39	264.6	35.81
		ApproxMinVolume	3.896	819.2e-3	4.716	4.716	84441	9.702e-6	80.727	45.45	261.6	35.93
	5	Recursive	3.825	689.5e-3	4.514	4.514	68411	10.08e-6	80.719	38.25	250.5	29.11
		Recursive2	4.362	725.5e-3	5.087	5.087	68733	10.55e-6	80.719	40.25	282.2	29.25
		Interval	30.99e-6	1999	1999	1999	226343431	8.835e-6	93.403	100.0	100.0	100.0
		Bernstein	11.50	310.4	321.9	05:21	11132313	27.785e-6	93.208	15.52	16.10	4.918
0.1	2	MinVariance	16.68	450.5	467.2	07:47	13945137	32.30e-6	93.219	22.53	23.36	6.161
		BSplines	12.51	2225	2238	37:18	83778093	26.57e-6	93.349	111.3	111.9	37.01
		MinNorm	16.18	390.4	406.6	06:46	12565245	31.07e-6	93.214	19.52	20.33	5.551
		MinVolume	13.78	504.7	518.5	08:38	16878643	29.90e-6	93.229	25.24	25.92	7.457
		ApproxMinVolume	13.60	502.3	515.9	08:35	16946953	29.64e-6	93.229	25.12	25.80	7.487
		Recursive	16.49	370.1	386.6	06:26	12239785	30.24e-6	93.208	18.51	19.33	5.408
	3	Recursive2	16.34	374.7	391.1	06:31	12310805	30.44e-6	93.208	18.74	19.55	5.439
		Interval	23.00e-6	2250450	2250450	26:01:07:30	200618424529	11.22e-6	107.82	100.0	100.0	100.0
		Bernstein	73.41	377027	377027	4-08:43:47	7407984656	50.89e-6	107.48	16.75	16.75	3.693
		MinVariance	77.73	491159	491159	5-16:25:59	9615782432	51.08e-6	107.49	21.82	21.82	4.793
0.01	4	BSplines	73.71	4652710	4652710	53:20:25:10	94057467869	49.47e-6	107.66	206.7	206.7	46.88
		MinNorm	75.34	431024	431024	4-23:43:44	8541711916	50.46e-6	107.48	19.15	19.15	4.258
		MinVolume	75.95	606076	606076	7-00:21:16	12192893464	49.71e-6	107.50	26.93	26.93	6.078
		ApproxMinVolume	75.41	603068	603068	6-23:31:08	12265852372	49.17e-6	107.50	26.80	26.80	6.114
		Recursive	74.40	409660	409660	4-17:47:40	8104307124	50.55e-6	107.48	18.20	18.20	4.040
		Recursive2	73.89	399327	399327	4-14:55:27	8070959330	49.48e-6	107.48	17.74	17.74	4.023
	5	Interval	23.84e-6	12.11e-3	12.13e-3	0.012	1441	8.404e-6	80.229	100.0	100.0	100.0
		Bernstein	833.1e-3	7.175e-3	840.3e-3	0.840	1005	7.139e-6	79.743	59.25	6925.2	69.74
		MinVariance	899.6e-3	8.409e-3	908.0e-3	0.908	1145	7.344e-6	79.762	69.44	7483.3	79.46
		BSplines	768.6e-3	10.50e-3	779.1e-3	0.779	2341	4.485e-6	80.473	86.71	6421.1	162.5
0.01	2	MinNorm	825.2e-3	6.332e-3	831.6e-3	0.832	1117	5.669e-6	79.753	52.29	6853.5	77.52
		MinVolume	811.8e-3	7.004e-3	818.8e-3	0.819	1213	5.774e-6	79.781	57.84	6748.4	84.18
		ApproxMinVolume	788.8e-3	6.475e-3	795.3e-3	0.795	1217	5.321e-6	79.781	53.47	6554.6	84.46
		Recursive	770.5e-3	8.921e-3	779.4e-3	0.779	1099	8.118e-6	79.743	73.67	6423.5	76.27
		Recursive2	813.5e-3	7.174e-3	820.7e-3	0.821	1219	5.885e-6	79.743	59.24	6763.9	84.59
		Interval	31.95e-6	288.9e-3	288.9e-3	0.289	37277	7.749e-6	82.293	100.0	100.0	100.0
	3	Bernstein	3.363	174.7e-3	3.538	3.538	15637	11.17e-6	81.625	60.47	1224.6	41.95
		MinVariance	4.653	190.5e-3	4.843	4.843	17147	11.11e-6	81.656	65.93	1676.4	46.00
		BSplines	3.528	559.8e-3	4.087	4.087	52413	10.68e-6	82.311	193.8	1414.8	140.6
		MinNorm	4.446	172.6e-3	4.618	4.618	16373	10.54e-6	81.642	59.76	1598.5	43.92
0.01	4	MinVolume	3.872	212.7e-3	4.085	4.085	18965	11.22e-6	81.685	73.63	1414.0	50.88
		ApproxMinVolume	3.919	207.3e-3	4.127	4.127	19009	10.90e-6	81.686	71.75	1428.4	50.99
		Recursive	3.800	180.3e-3	3.980	3.980	17221	10.47e-6	81.625	62.43	1377.6	46.20
		Recursive2	4.255	189.7e-3	4.444	4.444	17639	10.75e-6	81.625	65.65	1538.3	47.32
		Interval	30.04e-6	189.6	189.6	03:09	16915625	11.21e-6	95.784	100.0	100.0	100.0
		Bernstein	11.66	47.38	59.03	59.031	1658429	28.57e-6	94.237	24.99	31.14	9.804
0.01	5	MinVariance	15.51	65.07	80.58	01:20	2021301	32.19e-6	94.322	34.32	42.50	11.95
		BSplines	11.99	342.8	354.8	05:54	11575531	29.61e-6	95.378	180.8	187.1	68.43
		MinNorm	15.40	58.57	73.97	01:13	1853443	31.60e-6	94.302	30.89	39.02	10.96
		MinVolume	13.40	76.48	89.87	01:29	2470633	30.95e-6	94.416	40.34	47.40	14.61
		ApproxMinVolume	13.09	74.99	88.08	01:28	2482491	30.21e-6	94.417	39.55	46.46	14.68
		Recursive	15.74	76.11	91.85	01:31	2505595	30.38e-6	94.237	40.15	48.45	14.81
		Recursive2	15.85	78.00	93.86	01:33	2479921	31.45e-6	94.237	41.14	49.50	14.66
		Interval	31.00e-6	97561	97561	1-03:06:01	8785676254	11.10e-6	111.53	100.0	100.0	100.0
		Bernstein	93.67	24220	24313	06:45:13	466369727	51.93e-6	108.86	24.83	24.92	5.308
		MinVariance	98.97	32492	32591	09:03:11	609433693	53.32e-6	108.99	33.30	33.41	6.937
0.01	5	BSplines	94.04	297053	297054	3-10:30:54	582255882	51.02e-6	110.49	304.5	304.5	66.27
		MinNorm	98.11	28047	28145	07:49:05	534119247	52.51e-6	108.92	28.75	28.85	6.079
		MinVolume	98.14	41018	41117	11:25:17	78890223	52.00e-6	109.10	42.04	42.14	8.979
		ApproxMinVolume	97.94	42189	42287	11:44:47	793275339	53.18e-6	109.10	43.24	43.34	9.029
		Recursive	95.92	42926	43022	11:57:02	808840765	53.07e-6	108.86	44.00	44.10	9.206
		Recursive2	95.36	37659	37754	10:29:14	712057779	52.89e-6	108.86	38.60	38.70	8.105

Table 45: Bissection of problem 2D with problem: 17, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	32.90e-6	47.93e-3	47.96e-3	0.048	7049	6.799e-6	53.397	100.0	100.0	100.0
		Bernstein	856.0e-3	19.65e-3	875.7e-3	0.876	8193	2.398e-6	53.397	40.99	1825.8	116.2
		MinVariance	922.9e-3	19.54e-3	942.5e-3	0.943	8243	2.371e-6	53.400	40.77	1965.2	116.9
		BSplines	853.0e-3	29.35e-3	882.3e-3	0.882	12157	2.414e-6	53.486	61.23	1839.8	172.5
		MinNorm	905.0e-3	19.14e-3	924.1e-3	0.924	8211	2.331e-6	53.398	39.94	1926.9	116.5
	3	MinVolume	896.5e-3	19.28e-3	915.8e-3	0.916	8315	2.318e-6	53.402	40.22	1909.6	118.0
		ApproxMinVolume	904.3e-3	19.88e-3	924.1e-3	0.924	8315	2.391e-6	53.402	41.48	1926.9	118.0
		Recursive	886.6e-3	19.66e-3	906.3e-3	0.906	8241	2.385e-6	53.397	41.01	1889.7	116.9
		Recursive2	878.4e-3	20.61e-3	899.0e-3	0.899	8301	2.482e-6	53.397	43.00	1874.5	117.8
		Interval	30.04e-6	560.7e-3	560.7e-3	0.561	67485	8.308e-6	64.042	100.0	100.0	100.0
0.01	4	Bernstein	3.352	204.7e-3	3.557		38603	5.302e-6	64.037	36.50	634.3	57.20
		MinVariance	4.657	238.8e-3	4.895	4.895	43573	5.481e-6	64.041	42.59	873.1	64.57
		BSplines	3.576	698.1e-3	4.274	4.274	115729	6.032e-6	64.137	124.5	762.3	171.5
		MinNorm	4.557	219.6e-3	4.777	4.777	40381	5.438e-6	64.039	39.17	851.9	59.84
		MinVolume	3.921	267.6e-3	4.189	4.189	47995	5.575e-6	64.045	47.72	747.1	71.12
	5	ApproxMinVolume	3.915	269.7e-3	4.185	4.185	48187	5.596e-6	64.045	48.09	746.4	71.40
		Recursive	3.841	213.2e-3	4.054	4.054	39377	5.415e-6	64.037	38.03	723.0	58.35
		Recursive2	4.364	223.4e-3	4.587	4.587	39619	5.639e-6	64.037	39.84	818.2	58.71
		Interval	36.95e-6	701.7	701.7	11.41	75759739	9.263e-6	55.997	100.0	100.0	100.0
		Bernstein	12.20	354.7	366.9	06:06	12645367	28.05e-6	55.850	50.55	52.29	16.69
0.05	3	MinVariance	17.46	491.8	509.2	08:29	15574363	31.585e-6	55.862	70.08	72.57	20.56
		BSplines	12.71	2223	2236	37:16	85001263	26.16e-6	56.000	316.9	318.7	112.2
		MinNorm	16.72	444.8	461.5	07:41	14169025	31.39e-6	55.857	63.38	65.76	18.70
		MinVolume	14.23	554.7	568.9	09:28	18757317	29.57e-6	55.873	79.05	81.07	24.76
		ApproxMinVolume	14.01	545.7	559.7	09:19	18874981	28.91e-6	55.874	77.76	79.76	24.91
	4	Recursive	16.80	391.0	407.8	06:47	13166761	29.70e-6	55.850	55.72	58.11	17.38
		Recursive2	16.79	391.1	407.9	06:47	13094659	29.87e-6	55.850	55.73	58.12	17.28
		Interval	29.00e-6	293889	293889	3-09:38:09	26877480220	10.93e-6	63.149	100.0	100.0	100.0
		Bernstein	73.81	109363	109363	1-06:22:43	2227883900	49.09e-6	62.923	37.21	37.21	8.289
		MinVariance	78.21	149998	149998	1-17:39:58	3010892244	49.82e-6	62.941	51.04	51.04	11.20
0.1	2	BSplines	73.93	1659490	1659490	19-04:58:10	33851701949	49.02e-6	63.145	564.7	564.7	125.9
		MinNorm	77.56	126739	126739	1-11:12:19	2621337476	48.35e-6	62.933	43.12	43.12	9.753
		MinVolume	76.21	195465	195465	2-06:17:45	3972859461	49.20e-6	62.957	66.51	66.51	14.78
		ApproxMinVolume	75.76	196434	196434	2-06:33:54	3995063499	49.17e-6	62.958	66.84	66.84	14.86
		Recursive	73.74	125467	125467	1-10:51:07	2398252936	52.32e-6	62.923	42.69	42.69	8.923
	3	Recursive2	71.81	118203	118203	1-08:50:03	2386029012	49.54e-6	62.923	40.22	40.22	8.877
		Interval	22.89e-6	9.191e-3	9.214e-3	0.009	967	9.505e-6	54.227	100.0	100.0	100.0
		Bernstein	778.9e-3	5.877e-3	784.8e-3	0.785	905	6.494e-6	54.227	63.94	8517.9	93.59
		MinVariance	917.8e-3	5.647e-3	923.5e-3	0.923	925	6.105e-6	54.246	61.44	10022.7	95.66
		BSplines	867.9e-3	7.693e-3	875.6e-3	0.876	1437	5.353e-6	54.941	83.70	9503.6	148.6
0.5	4	MinNorm	930.0e-3	5.903e-3	935.9e-3	0.936	909	6.494e-6	54.237	64.23	10157.8	94.00
		MinVolume	897.5e-3	6.283e-3	903.8e-3	0.904	955	6.579e-6	54.264	68.36	9809.6	98.76
		ApproxMinVolume	893.9e-3	5.725e-3	899.7e-3	0.900	955	5.995e-6	54.264	62.29	9764.1	98.76
		Recursive	865.5e-3	5.876e-3	871.4e-3	0.871	951	6.179e-6	54.227	63.93	9456.9	98.35
		Recursive2	872.9e-3	6.593e-3	879.5e-3	0.879	1011	6.521e-6	54.227	71.73	9544.9	104.6
	5	Interval	30.04e-6	108.3e-3	108.3e-3	0.108	11525	9.399e-6	65.393	100.0	100.0	100.0
		Bernstein	3.362	59.40e-3	3.421	3.421	6065	9.793e-6	65.347	54.83	3157.6	52.62
		MinVariance	4.574	70.35e-3	4.645	4.645	7003	10.05e-6	65.380	64.95	4286.7	60.76
		BSplines	3.589	279.7e-3	3.869	3.869	26027	10.75e-6	66.153	258.2	3570.5	225.8
		MinNorm	4.482	62.27e-3	4.544	4.544	6467	9.629e-6	65.365	57.49	4193.7	56.11
0.25	3	MinVolume	3.955	79.83e-3	4.034	4.034	7933	10.06e-6	65.411	73.70	3723.5	68.83
		ApproxMinVolume	3.835	73.70e-3	3.909	3.909	7945	9.276e-6	65.412	68.04	3607.5	68.94
		Recursive	3.834	67.17e-3	3.902	3.902	7033	9.550e-6	65.347	62.01	3601.0	61.02
		Recursive2	4.291	74.19e-3	4.365	4.365	7251	10.23e-6	65.347	68.49	4028.7	62.92
		Interval	30.04e-6	38.67	38.67	38.669	4074977	9.489e-6	58.169	100.0	100.0	100.0
	4	Bernstein	11.45	24.55	36.00	35.996	875939	28.03e-6	56.938	63.49	93.09	21.50
		MinVariance	15.30	32.69	47.99	47.986	1076113	30.38e-6	57.038	84.54	124.1	26.41
		BSplines	12.10	163.0	175.1	02:55	5368217	30.36e-6	58.127	421.5	452.7	131.7
		MinNorm	14.88	30.49	45.37	45.371	984833	30.96e-6	56.978	78.85	117.3	24.17
		MinVolume	13.28	38.89	52.18	52.177	1281397	30.35e-6	57.123	100.6	134.9	31.45
0.75	5	ApproxMinVolume	13.02	38.14	51.16	51.164	1286201	29.65e-6	57.124	98.63	132.3	31.56
		Recursive	16.16	34.19	50.35	50.355	1095779	31.20e-6	56.938	88.43	130.2	26.89
		Recursive2	15.80	32.95	48.75	48.753	1062395	31.02e-6	56.938	85.22	126.1	26.07
		Interval	35.05e-6	25906	25906	07:11:46	2497331135	10.37e-6	66.175	100.0	100.0	100.0
		Bernstein	95.21	12928	13023	03:37:03	25098873	51.51e-6	64.526	49.90	50.27	10.05
	6	MinVariance	99.28	17795	17895	04:58:15	342719351	51.93e-6	64.680	68.69	69.08	13.72
		BSplines	95.12	185332	185332	2-03:28:52	3621925291	51.17e-6	66.278	715.4	715.4	145.0
		MinNorm	103.3	15732	15835	04:23:55	301507075	52.18e-6	64.623	60.73	61.13	12.07
		MinVolume	102.1	24203	24305	06:45:05	467664703	51.75e-6	64.786	93.43	93.82	18.73
		ApproxMinVolume	101.8	24757	24859	06:54:19	470631613	52.61e-6	64.791	95.57	95.96	18.85
0.4	3	Recursive	98.65	20332	20431	05:40:31	393001825	51.74e-6	64.526	78.48	78.87	15.74
		Recursive2	99.80	17841	17941	04:59:01	346977299	51.42e-6	64.526	68.87	69.26	13.89

Table 46: Bisection of problem 2D with problem: 18, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	28.85e-6	3.111e-3	3.140e-3	0.003	107	29.08e-6	infeasible	100.0	100.0	100.0
		Bernstein	851.9e-3	3.150e-3	855.0e-3	0.855	69	45.66e-6	infeasible	101.3	27230.4	64.49
		MinVariance	915.9e-3	3.317e-3	919.2e-3	0.919	63	52.65e-6	infeasible	106.6	29275.2	58.88
		BSplines	872.1e-3	3.628e-3	875.7e-3	0.876	113	32.11e-6	infeasible	116.6	27889.3	105.6
		MinNorm	897.1e-3	3.134e-3	900.2e-3	0.900	61	51.38e-6	infeasible	100.7	28669.2	57.01
	3	MinVolume	878.0e-3	3.081e-3	881.1e-3	0.881	69	44.65e-6	infeasible	99.03	28060.5	64.49
		ApproxMinVolume	879.4e-3	3.101e-3	882.5e-3	0.883	69	44.94e-6	infeasible	99.67	28106.2	64.49
		Recursive	876.5e-3	3.492e-3	880.0e-3	0.880	93	37.55e-6	infeasible	112.2	28024.6	86.92
		Recursive2	871.7e-3	3.210e-3	874.9e-3	0.875	123	26.10e-6	infeasible	103.2	27864.4	115.0
		Interval	30.99e-6	559.4e-3	559.4e-3	0.559	67829	8.247e-6	44.363	100.0	100.0	100.0
0.01	4	Bernstein	3.377	347.7e-3	3.725	3.725	59033	5.889e-6	44.358	62.15	665.8	87.03
		MinVariance	4.619	377.0e-3	4.996	4.996	62027	6.078e-6	44.363	67.40	893.0	91.45
		BSplines	3.554	1.133	4.687	4.687	171549	6.605e-6	44.451	202.5	837.9	252.9
		MinNorm	4.515	366.8e-3	4.882	4.882	60287	6.083e-6	44.361	65.56	872.8	88.88
		MinVolume	3.927	407.0e-3	4.334	4.334	67867	5.996e-6	44.367	72.75	774.8	100.1
	5	ApproxMinVolume	3.917	416.6e-3	4.334	4.334	67997	6.127e-6	44.367	74.47	774.7	100.2
		Recursive	3.843	356.2e-3	4.199	4.199	59535	5.983e-6	44.358	63.68	750.6	87.77
		Recursive2	4.294	364.3e-3	4.658	4.658	60313	6.040e-6	44.358	65.12	832.7	88.92
		Interval	25.99e-6	106.3	106.3	01:46	11321541	9.390e-6	33.203	100.0	100.0	100.0
		Bernstein	12.15	51.76	63.91	01:03	1976463	26.19e-6	33.151	48.69	60.12	17.46
0.1	2	MinVariance	16.69	73.04	89.73	01:29	2438639	29.95e-6	33.159	68.70	84.40	21.54
		BSplines	12.50	416.4	428.9	07:08	14862617	28.02e-6	33.250	391.7	403.4	131.3
		MinNorm	16.06	64.21	80.27	01:20	2223893	28.87e-6	33.157	60.39	75.50	19.64
		MinVolume	13.87	83.68	97.55	01:37	2981505	28.07e-6	33.166	78.71	91.76	26.33
		ApproxMinVolume	13.60	82.09	95.69	01:35	2994203	27.42e-6	33.166	77.21	90.01	26.45
	3	Recursive	16.46	56.27	72.73	01:12	2085287	26.98e-6	33.151	52.93	68.41	18.42
		Recursive2	13.97	56.77	70.74	01:10	2050371	27.69e-6	33.151	53.40	66.54	18.11
		Interval	31.00e-6	1169670	1169670	13:12:54:30	109246741762	10.71e-6	31.568	100.0	100.0	100.0
		Bernstein	73.21	1355690	1355690	15:16:34:50	26612339096	50.94e-6	31.442	115.9	115.9	24.36
		MinVariance	77.95	1776650	1776650	20:13:30:50	34539615227	51.44e-6	31.458	151.9	151.9	31.62
0.1	4	BSplines	73.65	in progress	> 60 days							
		MinNorm	77.24	1562000	1562000	18:01:53:20	30651698964	50.96e-6	31.450	133.5	133.5	28.06
		MinVolume	76.02	2174030	2174030	25:03:53:50	42898379793	50.68e-6	31.472	185.9	185.9	39.27
		ApproxMinVolume	75.06	2199990	2199990	25:11:06:30	43133314536	51.00e-6	31.472	188.1	188.1	39.48
		Recursive	74.22	1402990	1403000	16:05:43:20	275948489698	50.83e-6	31.442	119.9	119.9	25.26
	5	Recursive2	73.27	1387000	1387000	16:01:16:40	27257663280	50.88e-6	31.442	118.6	118.6	24.95
		Interval	24.08e-6	2.947e-3	2.971e-3	0.003	107	27.54e-6	infeasible	100.0	100.0	100.0
		Bernstein	854.4e-3	3.240e-3	857.6e-3	0.858	69	46.96e-6	infeasible	110.0	28868.1	64.49
		MinVariance	913.6e-3	3.120e-3	916.7e-3	0.917	63	49.53e-6	infeasible	105.9	30855.3	58.88
		BSplines	851.4e-3	3.482e-3	854.9e-3	0.855	113	30.81e-6	infeasible	118.2	28776.6	105.6
0.1	2	MinNorm	892.4e-3	3.096e-3	895.5e-3	0.896	61	50.76e-6	infeasible	105.1	30143.8	57.01
		MinVolume	878.1e-3	3.513e-3	881.6e-3	0.882	69	50.91e-6	infeasible	119.2	29674.7	64.49
		ApproxMinVolume	885.0e-3	3.499e-3	888.5e-3	0.888	69	50.71e-6	infeasible	118.7	29905.9	64.49
		Recursive	873.6e-3	3.398e-3	877.0e-3	0.877	93	36.54e-6	infeasible	115.3	29518.4	86.92
		Recursive2	859.9e-3	3.243e-3	863.2e-3	0.863	123	26.37e-6	infeasible	110.0	29053.8	115.0
	3	Interval	34.09e-6	112.8e-3	112.9e-3	0.113	13441	8.394e-6	45.695	100.0	100.0	100.0
		Bernstein	3.292	69.99e-3	3.360	3.360	7541	9.281e-6	45.365	62.04	2977.1	56.10
		MinVariance	4.656	77.27e-3	4.733	4.733	8139	9.494e-6	45.400	68.49	4194.1	60.55
		BSplines	3.374	279.3e-3	3.653	3.653	28201	9.904e-6	46.398	247.6	3237.0	209.8
		MinNorm	4.334	73.13e-3	4.407	4.407	7831	9.339e-6	45.384	64.82	3904.7	58.26
0.1	4	MinVolume	3.849	84.50e-3	3.933	3.933	9197	9.187e-6	45.434	74.89	3485.2	68.42
		ApproxMinVolume	3.919	92.34e-3	4.011	4.011	9207	10.03e-6	45.435	81.85	3554.2	68.50
		Recursive	3.764	80.81e-3	3.845	3.845	8099	9.978e-6	45.365	71.63	3407.2	60.26
		Recursive2	4.217	84.07e-3	4.301	4.301	8813	9.539e-6	45.365	74.52	3811.3	65.57
		Interval	22.89e-6	11.13	11.13	11.13	1183541	9.407e-6	34.408	100.0	100.0	100.0
	5	Bernstein	11.64	8.347	19.99	19.988	290217	28.76e-6	33.973	74.97	179.5	24.52
		MinVariance	15.74	11.91	27.66	27.655	362485	32.86e-6	34.010	107.0	248.4	30.63
		BSplines	12.05	54.73	66.78	01:06	1845259	29.66e-6	34.818	491.6	599.8	155.9
		MinNorm	15.27	10.62	25.89	25.587	431479	28.59e-6	34.071	110.8	229.8	36.46
		MinVolume	13.25	12.34	25.59	25.587	433717	31.04e-6	34.072	120.9	238.9	36.65
0.1	2	ApproxMinVolume	13.13	13.46	26.60	26.596	368149	30.80e-6	33.973	101.9	243.1	31.11
		Recursive	15.73	11.34	27.07	27.066	368149	30.80e-6	33.973	100.6	241.5	30.63
		Recursive2	15.69	11.20	26.89	26.892	362575	30.89e-6	33.973	100.6	241.5	30.63
		Interval	26.94e-6	11199	11199	03:06:39	995655319	11.25e-6	33.874	100.0	100.0	100.0
		Bernstein	98.18	15392	15490	04:18:10	294803321	52.21e-6	32.826	137.4	138.3	29.61
	3	MinVariance	103.3	19323	19427	05:23:47	361755921	53.42e-6	32.947	172.5	173.5	36.33
		BSplines	97.45	96097	96097	1:02:41:37	184377424	52.12e-6	34.374	858.0	858.0	185.2
		MinNorm	101.4	17883	17985	04:59:45	332115815	53.85e-6	32.900	159.7	160.6	33.36
		MinVolume	99.49	22987	23086	06:24:46	434072849	52.96e-6	33.059	205.2	206.1	43.60
		ApproxMinVolume	99.28	22737	22837	06:20:37	435725303	52.18e-6	33.061	203.0	203.9	43.76
0.1	4	Recursive	97.30	18791	18888	05:14:48	357482911	52.57e-6	32.826	167.8	168.7	35.90
		Recursive2	97.49	17439	17536	04:52:16	334202881	52.18e-6	32.826	155.7	156.6	33.57

Table 47: Bisection of problem 2D with problem: 19, type: MaxFirst

precision	ndof	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time.per_iter	comput_time (%)	total_time (%)	nb_iter (%)
0.001	2	Interval	31.00e-6	15.88e-3	15.91e-3	0.016	2044	20.00e-6	100.0	100.0	100.0
		Bernstein	798.9e-3	6.706e-3	805.6e-3	0.806	1456	25.00e-6	65.22	12254.6	67.61
		MinVariance	859.9e-3	6.746e-3	866.7e-3	0.867	1492	25.00e-6	64.99	13107.2	68.26
		BSplines	813.7e-3	9.669e-3	823.3e-3	0.823	2399	19.00e-6	79.15	12437.2	111.8
		MinNorm	854.9e-3	6.771e-3	861.7e-3	0.862	1471	26.00e-6	64.27	13003.7	67.05
		MinVolume	841.9e-3	7.052e-3	849.0e-3	0.849	1553	24.00e-6	67.03	12855.1	72.45
		ApproxMinVolume	830.0e-3	7.001e-3	837.0e-3	0.837	1555	24.00e-6	66.17	12690.6	72.52
		Recursive	814.0e-3	6.820e-3	820.8e-3	0.821	1509	21.00e-6	65.77	12430.7	75.80
	3	Recursive2	816.9e-3	7.051e-3	824.0e-3	0.824	1534	20.00e-6	67.21	12479.4	82.56
		Interval	29.00e-6	2.137	2.137	2.137	291396	8.000e-6	100.0	100.0	100.0
		Bernstein	2.571	750.4e-3	3.322	3.322	80668	9.000e-6	42.63	387.5	39.15
		MinVariance	3.504	921.9e-3	4.426	4.426	91282	9.000e-6	51.98	499.6	43.83
		BSplines	2.689	2.724	5.413	5.413	275442	9.000e-6	149.5	510.5	126.2
		MinNorm	3.379	861.2e-3	4.240	4.240	86279	9.000e-6	48.12	482.7	41.45
		MinVolume	2.970	987.8e-3	3.958	3.958	102430	9.000e-6	55.53	445.8	49.04
	4	ApproxMinVolume	2.956	994.2e-3	3.950	3.950	102740	9.000e-6	55.87	445.8	49.16
		Recursive	2.900	801.6e-3	3.702	3.702	84015	9.000e-6	45.27	428.7	40.46
		Recursive2	3.144	811.4e-3	3.956	3.956	83342	9.000e-6	46.00	463.4	40.20
		Interval	29.00e-6	1036	1036	17:16	118990242	9.000e-6	100.0	100.0	100.0
		Bernstein	7.841	303.4	311.2	05:11	15509297	21.00e-6	34.22	36.98	15.11
	5	MinVariance	10.39	385.3	395.7	06:35	18418458	23.00e-6	43.90	47.55	17.88
		BSplines	8.086	1609	1617	26:57	80660031	21.00e-6	188.1	191.0	79.21
		MinNorm	10.15	352.6	362.8	06:02	17058387	23.00e-6	40.10	43.67	16.58
		MinVolume	8.907	438.5	447.4	07:27	21516318	22.00e-6	49.61	52.72	20.81
		ApproxMinVolume	8.863	439.4	448.3	07:28	21595419	22.00e-6	49.63	52.71	20.89
		Recursive	9.988	323.6	333.5	05:33	15973579	22.00e-6	36.66	40.26	15.56
		Recursive2	10.01	339.2	349.2	05:49	16750712	22.00e-6	38.19	41.78	16.17
		Interval	28.00e-6	1085503	1085503	12:13:31:43	97765664157	11.00e-6	100.0	100.0	100.0
		Bernstein	64.88	441722	441734	5:02:42:14	10498059595	42.00e-6	64.95	64.97	16.14
		MinVariance	69.19	555135	555145	6:10:12:25	12863110512	43.00e-6	81.36	81.38	19.72
0.01	2	BSplines	63.24	2112760	2112768	24:10:52:48	50975345972	39.00e-6	445.4	445.4	109.3
		MinNorm	69.24	501404	501417	5:19:16:57	11726379813	43.00e-6	73.85	73.87	18.01
		MinVolume	67.31	661765	661776	7:15:49:36	15459329658	42.00e-6	96.40	96.42	23.64
		ApproxMinVolume	67.59	667536	667547	7:17:25:47	15541638589	42.00e-6	97.28	97.30	23.76
		Recursive	65.69	460923	460936	5:08:02:16	10847674989	42.00e-6	67.02	67.04	16.51
		Recursive2	65.48	466391	466403	5:09:33:23	11028926772	42.00e-6	69.76	69.79	17.25
		Interval	30.00e-6	18.67e-3	18.70e-3	0.019	533	93.00e-6	100.0	100.0	100.0
		Bernstein	1.127	5.497e-3	1.133	1.133	337	39.00e-6	81.11	16178.4	66.84
	3	MinVariance	1.117	6.323e-3	1.123	1.123	349	40.00e-6	87.87	16325.4	67.43
		BSplines	1.085	7.050e-3	1.092	1.092	640	29.00e-6	98.95	15836.6	115.6
		MinNorm	1.151	5.957e-3	1.157	1.157	341	46.00e-6	89.40	17260.4	65.80
		MinVolume	1.149	6.395e-3	1.155	1.155	373	39.00e-6	86.95	17252.4	72.15
		ApproxMinVolume	1.181	6.322e-3	1.188	1.188	374	38.00e-6	89.31	18001.4	72.25
		Recursive	1.166	6.361e-3	1.172	1.172	387	34.00e-6	93.90	17908.2	79.35
		Recursive2	1.184	6.123e-3	1.190	1.190	411	32.00e-6	91.33	18228.4	86.47
	4	Interval	29.00e-6	367.9e-3	368.0e-3	0.368	49165	8.000e-6	100.0	100.0	100.0
		Bernstein	2.553	152.8e-3	2.706	2.706	15480	10.00e-6	47.31	1468.6	38.71
		MinVariance	3.490	182.9e-3	3.673	3.673	17422	10.00e-6	55.98	1936.4	43.47
		BSplines	2.689	542.0e-3	3.231	3.231	51919	9.000e-6	166.3	1656.3	129.4
		MinNorm	3.389	170.4e-3	3.559	3.559	16450	10.00e-6	52.35	1888.0	41.06
		MinVolume	2.977	200.0e-3	3.177	3.177	19466	10.00e-6	61.59	1692.6	48.67
		ApproxMinVolume	2.958	199.8e-3	3.158	3.158	19527	10.00e-6	61.66	1681.7	48.83
	5	Recursive	2.907	186.4e-3	3.093	3.093	18115	10.00e-6	56.72	1660.0	44.56
		Recursive2	3.129	187.0e-3	3.316	3.316	17985	10.00e-6	56.76	1794.3	44.29
		Interval	30.00e-6	85.06	85.06	01:25	9264411	9.000e-6	100.0	100.0	100.0
		Bernstein	7.742	25.74	33.48	33.485	1211176	22.00e-6	38.40	56.41	16.70
		MinVariance	10.15	32.53	42.68	42.680	1412576	24.00e-6	48.99	72.70	19.49
		BSplines	7.986	138.8	146.8	02:26	6197189	22.00e-6	205.7	224.3	83.96
		MinNorm	9.913	29.68	39.59	39.593	1310372	23.00e-6	44.66	67.81	18.11
	5	MinVolume	8.757	36.84	45.59	45.594	1652798	22.00e-6	54.88	75.23	22.70
		ApproxMinVolume	8.756	36.87	45.63	45.631	1659003	23.00e-6	55.36	75.65	22.79
		Recursive	9.835	34.69	44.53	44.529	1544402	23.00e-6	49.96	73.02	20.80
		Recursive2	9.924	39.96	49.88	49.884	1797626	23.00e-6	58.13	81.44	24.29
		Interval	30.00e-6	32645	32645	09:04:05	2936944658	10.00e-6	100.0	100.0	100.0
		Bernstein	78.12	14397	14475	04:01:15	310835714	44.00e-6	79.14	80.32	18.93
		MinVariance	81.80	17777	17859	04:57:39	376104619	45.00e-6	97.11	98.36	22.69
	5	BSplines	79.02	115252	115298	1:08:01:38	2369248363	43.00e-6	551.4	552.5	128.0
		MinNorm	82.16	16109	16191	04:29:51	34337734	45.00e-6	88.30	89.54	20.81
		MinVolume	80.34	21399	21479	05:57:59	455149620	44.00e-6	115.0	116.3	27.12
		ApproxMinVolume	80.43	21584	21665	06:01:05	457327925	44.00e-6	115.5	116.7	27.25
		Recursive	78.34	20539	20618	05:43:38	428065054	44.00e-6	99.42	100.6	23.37
		Recursive2	78.50	20441	20520	05:42:00	433903019	44.00e-6	125.1	126.3	29.37

Table 48: Average of Bisection for 2D problems

diameter	basis function	X	Y	Z	COM_X	COM_Y	Γ_1	Γ_2	Γ_3	Γ_4	Γ_5	Γ_6	$\sum \Gamma^2$
1.00e+00	Interval	-4713.5-176	-3528.6-616	-3101.7-097	-3841.e-3 565.8e-3	-327.9e-3 643.8e-3	-4.141e3-3 54567.3	-3.829e3-3 30276.3	-413.8-585.5	-5.578-380.1	-7.132-8.915	-2.816-1.876	-30.05e-3 36.15e-3
	Bernstein	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-40.14e-3 40.20e-3	
	MinVariance	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-40.14e-3 40.20e-3	
	BSplines	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-57.01e-3 122.3e-3	
	MinNo	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-26.76e-3 40.76e-3	
	MinVo	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-21.20e-3 42.26e-3	
	ApproxInVo	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-21.15e-3 42.29e-3	
	Recursive	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-102.9e-3 40.20e-3	
	Recursive2	-6384.8-675	-6365.5-527	-2991.4-079	-526.7e-3 632.7e-3	-5.221e3-3 623.6e-3	-3.363e3-3 35926.3	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-103.0e-3 40.20e-3	
5.00e-01	Interval	-1.280e-3 176.0	-281.3-3 3.011	-900.0e-3-2.905	-745.1e-3 312.1e-3	-17.51e-3 341.4e-3	-610.6-357.7	-822.6-408.9	-63.36-116.3	-159.3-3.176	-1.498-2.758	-9.56e-3 3429.5e-3	-753.5e-3 1.148e6
	Bernstein	-928.3-3 675	-597.5-3 686	-148.3-3 1.664	-414.1e-3 312.1e-3	-27.21e-3 322.4e-3	-414.1-312.1	-596.8-617.2	-443.9-449.1	-7.108-6.939	-1.981-2.105	-40.14e-3 40.20e-3	
	MinVariance	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-382.0-275.8	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-124.9e-3 3.594e3
	BSplines	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-323.4-310.6	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-281.0e-3 483.4e3
	MinNo	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-288.3-274.4	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-128.9e-3 175.9e3
	MinVo	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-286.6-278.7	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-123.7e-3 189.7e3
	ApproxInVo	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-285.7-278.7	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-123.8e-3 189.9e3
	Recursive	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-285.7-278.7	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-315.2e-3 483.4e3
	Recursive2	-978.7-3-1.643	-597.5e-3-1.686	-148.3-3-1.664	-414.1e-3-255.5e-3	-44.52e-3-229.4e-3	-285.7-278.7	-299.7-218.0	-41.28-53.75	-64.40-41.26	-998.5e-3-3.1375	-130.3e-3 299.0e-3	-170.7e-3 345.6e3
1.00e-01	Interval	1.938e-3 706.3e-3	214.0e-3 3.816.6e-3	577.4e-3 1.268	69.40e-3 3.138.4e-3	37.75e-3 110.6e-3	-32.70-31.18	81.55-13.99	-4.41e-3 9.999	-25.86-1.317	-1.5628e-3 3.578.5e-3	-254.2e-3-5.984e-3	-1.241e-3 8.986e3
	Bernstein	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-185.3e-3 3.4556e3	
	MinVariance	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-36.9e-3 3.594e3	
	BSplines	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-923.3-7.076e3	
	MinNo	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-33.7-3.5936e3	
	MinVo	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-40.6-3.726e3	
	ApproxInVo	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-32.8e-3 3.4556e3	
	Recursive	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-191.8-3.4556e3	
	Recursive2	283.0e-3 639.0e-3	320.3e-3 652.6e-3	757.8e-3-1.056	70.32e-3 123.1e-3	16.39e-3 94.82e-3	-17.47-16.18	52.92-3.619	-5.569-17.83	-10.66e-3 3.110.6e-3	-180.8e-3 5.7804e-3	-170.7-3.4556e3	
5.00e-02	Interval	9.261e-3 468.9e-3	350.1e-3 635.2e-3	774.3e-3 1.089	77.22e-3 3.116.9e-3	52.58e-3 8.09-3e-3	-13.71-13.58	90.53-2.7215	-1.120-3.940	-17.88-3.5983	-90.17e-3 4.05e-3	-189.4e-3 8.8182e-3	-103.8-3.3766e3
	Bernstein	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-260.7-1.9076e3
	MinVariance	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-239.4-3.9063e3
	BSplines	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-210.6-3.1186e3
	MinNo	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-179.3-2.028e3
	MinVo	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-178.0-2.029e3
	ApproxInVo	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-147.3-1.9076e3
	Recursive	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-147.3-1.9076e3
	Recursive2	376.0e-3 550.7e-3	399.8e-3 563.4e-3	838.9e-3 985.5e-3	83.83e-3 3.109.5e-3	57.92e-3 81.87e-3	-7.825-7.439	-40.28-16.20	-14.41e-3 3.3481	-11.53-3.824	-158.7e-3 3.3271e-3	-156.5e-3 1.1062e-3	-140.6-1.9076e3
1.00e-03	Interval	1.359e-3 432.4e-3	452.1e-3 509.1e-3	879.4e-3 94.6e-3	92.51e-3-1.100.4e-3	66.06e-3 3.73-3e-3	-2.29-2.509	-32.85-23.75	-1.140-2.302	-12.61-10.250	-21.19e-3 2.7474e-3	-142.0e-3 1.214e-3	-66.1-3.1250e3
	Bernstein	146.7e-3 481.2e-3	463.9e-3 496.2e-3	899.4e-3 928.3e-3	83.89e-3 3.993e-3	67.30e-3 3.7204e-3	-1.46-1.425	-30.59-25.85	-1.388-2.039	-1.02-10.799	-226.5e-3 2.5976e-3	-136.9e-3 -1.270e-3	-784.6-1.0876e3
	MinVariance	146.7e-3 481.2e-3	463.9e-3 496.2e-3	899.4e-3 928.3e-3	83.89e-3 3.993e-3	67.30e-3 3.7204e-3	-1.46-1.426	-30.59-25.85	-1.388-2.039	-1.02-10.799	-226.5e-3 2.5976e-3	-136.9e-3 -1.270e-3	-773.8-1.0993e3
	BSplines	146.7e-3 481.2e-3	463.9e-3 496.2e-3	899.4e-3 928.3e-3	83.89e-3 3.993e-3	67.30e-3 3.7204e-3	-1.46-1.426	-30.59-25.85	-1.388-2.039	-1.02-10.799	-226.5e-3 2.5976e-3	-136.9e-3 -1.270e-3	-770.0-3.1093e3
	MinNo	146.7e-3 481.2e-3	463.9e-3 496.2e-3	899.4e-3 928.3e-3	83.89e-3 3.993e-3	67.30e-3 3.7204e-3	-1.46-1.426	-30.59-25.85	-1.388-2.039	-1.02-10.799	-226.5e-3 2.5976e-3	-136.9e-3 -1.270e-3	-762.9-3.1103e3
	MinVo	146.7e-3 481.2e-3	463.9e-3 496.2e-3	899.4e-3 928.3e-3	83.89e-3 3.993e-3	67.30e-3 3.7204e-3	-1.46-1.426	-30.59-25.85	-1.388-2.039	-1.02-10.799	-226.5e-3 2.5976e-3	-136.9e-3 -1.270e-3	-762.6-3.1103e3
	ApproxInVo	146.7e-3 481.2e-3	463.9e-3 496.2e-3	899.4e-3 928.3e-3	83.89e-3 3.993e-3	67.30e-3 3.7204e-3	-1.46-1.426	-30.59-25.85	-1.388-2.039	-1.02-10.799	-226.5e-3 2.5976e-3	-136.9e-3 -1.270e-3	-762.5-3.1087e3

diameter	basis function	X	Y	Z	COM_X	COM_Y	Γ_1	Γ_2	Γ_3	Γ_4	Γ_5	Γ_6	$\sum \Gamma_i^2$
1.00e+00	Interval	9.889	10.144	10.198	949.9e-3	971.6e-3	8.709e3	6.856e3	972.3	937.9	16.05	4.692	67.09e6
	Bernstein	13.06	12.89	7.071	1.159	1.148	10.524e3	6.755e3	1.214e3	892.9	14.05	4.086	80.34e6
	MinVariance	13.06	12.89	7.071	1.159	1.148	10.579e3	6.755e3	1.214e3	892.9	14.05	4.086	65.20e6
	BSplines	13.06	12.89	7.071	1.159	1.148	11.37e3	6.755e3	1.214e3	892.9	14.05	4.086	180.2e6
	MinNo	13.06	12.89	7.071	1.159	1.148	10.554e3	6.755e3	1.214e3	892.9	14.05	4.086	67.52e6
	MinVo	13.06	12.89	7.071	1.159	1.148	10.631e3	6.755e3	1.214e3	892.9	14.05	4.086	63.45e6
	ApproxMinVo	13.06	12.89	7.071	1.159	1.148	10.632e3	6.755e3	1.214e3	892.9	14.05	4.086	63.44e6
	Recursive	13.06	12.89	7.071	1.159	1.148	10.524e3	6.755e3	1.214e3	892.9	14.05	4.086	143.1e6
	Recursive2	13.06	12.89	7.071	1.159	1.148	10.524e3	6.755e3	1.214e3	892.9	14.05	4.086	143.2e6
5.000e-01	Interval	3.389	3.292	3.805	386.6e-3	359.0e-3	1.268e3	1.231e3	179.7	211.1	4.256	1.401	1.902e6
	Bernstein	2.621	2.283	1.812	330.4e-3	273.9e-3	551.1	511.6	95.00	105.7	2.373	723.3e-3	328.6e3
	MinVariance	2.621	2.283	1.812	330.4e-3	273.9e-3	557.8	511.6	95.00	105.7	2.373	723.3e-3	305.2e3
	BSplines	2.621	2.283	1.812	330.4e-3	273.9e-3	635.9	511.6	95.00	105.7	2.373	723.3e-3	767.4e3
	MinNo	2.621	2.283	1.812	330.4e-3	273.9e-3	554.8	511.6	95.00	105.7	2.373	723.3e-3	304.9e3
	MinVo	2.621	2.283	1.812	330.4e-3	273.9e-3	564.2	511.6	95.00	105.7	2.373	723.3e-3	313.4e3
	ApproxMinVo	2.621	2.283	1.812	330.4e-3	273.9e-3	564.4	511.6	95.00	105.7	2.373	723.3e-3	313.7e3
	Recursive	2.621	2.283	1.812	330.4e-3	273.9e-3	551.1	511.6	95.00	105.7	2.373	723.3e-3	488.9e3
	Recursive2	2.621	2.283	1.812	330.4e-3	273.9e-3	551.1	511.6	95.00	105.7	2.373	723.3e-3	471.0e3
1.000e-01	Interval	572.4e-3	572.6e-3	690.7e-3	79.03e-3	72.87e-3	63.88	98.54	13.42	24.54	634.7e-3	215.8e-3	11.21e3
	Bernstein	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	33.64	49.30	7.305	12.69	343.3e-3	102.8e-3	3.840e3
	MinVariance	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	33.94	49.30	7.305	12.69	343.3e-3	102.8e-3	3.964e3
	BSplines	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	37.37	49.30	7.305	12.69	343.3e-3	102.8e-3	7.984e3
	MinNo	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	33.81	49.30	7.305	12.69	343.3e-3	102.8e-3	3.868e3
	MinVo	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	34.22	49.30	7.305	12.69	343.3e-3	102.8e-3	4.188e3
	ApproxMinVo	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	34.23	49.30	7.305	12.69	343.3e-3	102.8e-3	4.193e3
	Recursive	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	33.64	49.30	7.305	12.69	343.3e-3	102.8e-3	6.718e3
	Recursive2	356.0e-3	332.3e-3	298.5e-3	52.76e-3	48.43e-3	33.64	49.30	7.305	12.69	343.3e-3	102.8e-3	4.373e3
5.000e-02	Interval	282.8e-3	285.1e-3	345.8e-3	39.69e-3	36.44e-3	27.29	46.11	6.060	11.90	314.9e-3	107.6e-3	3.480e3
	Bernstein	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.26	24.08	3.340	6.209	168.4e-3	50.26e-3	1.646e3
	MinVariance	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.34	24.08	3.340	6.209	168.4e-3	50.26e-3	1.739e3
	BSplines	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	16.21	24.08	3.340	6.209	168.4e-3	50.26e-3	3.329e3
	MinNo	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.30	24.08	3.340	6.209	168.4e-3	50.26e-3	1.688e3
	MinVo	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.41	24.08	3.340	6.209	168.4e-3	50.26e-3	1.848e3
	ApproxMinVo	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.41	24.08	3.340	6.209	168.4e-3	50.26e-3	1.851e3
	Recursive	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.26	24.08	3.340	6.209	168.4e-3	50.26e-3	2.354e3
	Recursive2	174.7e-3	163.6e-3	146.6e-3	25.97e-3	23.95e-3	15.26	24.08	3.340	6.209	168.4e-3	50.26e-3	1.767e3
1.000e-02	Interval	56.51e-3	56.93e-3	69.18e-3	7.951e-3	7.287e-3	5.038	9.100	1.163	2.361	62.81e-3	21.50e-3	585.9
	Bernstein	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.887	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	302.4
	MinVariance	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.893	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	325.0
	BSplines	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.958	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	605.3
	MinNo	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.890	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	314.4
	MinVo	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.898	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	347.2
	ApproxMinVo	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.898	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	347.7
	Recursive	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.887	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	330.4
	Recursive2	34.48e-3	32.35e-3	28.93e-3	5.134e-3	4.748e-3	2.887	4.746	651.3e-3	1.224	33.23e-3	9.892e-3	306.9
5.000e-03	Interval	28.25e-3	28.46e-3	34.59e-3	3.976e-3	3.644e-3	2.505	4.549	581.2e-3	1.180	31.40e-3	10.749e-3	289.0
	Bernstein	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.441	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	149.8
	MinVariance	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.444	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	161.4
	BSplines	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.477	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	299.8
	MinNo	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.443	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	156.0
	MinVo	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.447	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	172.5
	ApproxMinVo	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.447	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	172.8
	Recursive	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.441	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	156.9
	Recursive2	17.21e-3	16.15e-3	14.44e-3	2.563e-3	2.371e-3	1.441	2.369	325.2e-3	610.9e-3	16.59e-3	4.937e-3	151.0
1.000e-03	Interval	5.651e-3	5.693e-3	6.918e-3	795.2e-6	728.7e-6	501.0e-3	909.8e-3	116.2e-3	236.0e-3	6.281e-3	2.150e-3	57.26
	Bernstein	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	287.9e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	29.76
	MinVariance	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	288.5e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	32.11
	BSplines	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	295.1e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	59.53
	MinNo	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	288.2e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	31.04
	MinVo	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	289.0e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	34.34
	ApproxMinVo	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	289.1e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	34.40
	Recursive	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	287.9e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	30.04
	Recursive2	3.438e-3	3.226e-3	2.884e-3	512.0e-6	473.8e-6	287.9e-3	473.3e-3	64.96e-3	122.0e-3	3.313e-3	985.9e-6	29.81

Table 50: Diameter of the end effector position, joint torque and sum of square joint torque for several inputs considering several basis functions.

problem	n	center of the target	α	criteria
1	4	{0.4; 0.4; 0.7}	1.0	$\sum_i q_i^2$
2	4	{0.6; 0.6; 0.6}	1.0	$\sum_i q_i^2$
3	4	{0.4; 0.4; 0.7}	0.1	$\sum_i q_i^2$
4	4	{0.6; 0.6; 0.6}	0.1	$\sum_i q_i^2$
5	6	{0.4; 0.4; 0.7}	1.0	$\sum_i q_i^2$
6	6	{0.6; 0.6; 0.6}	1.0	$\sum_i q_i^2$
7	6	{0.4; 0.4; 0.7}	0.1	$\sum_i q_i^2$
8	6	{0.6; 0.6; 0.6}	0.1	$\sum_i q_i^2$
11	4	{0.4; 0.4; 0.7}	1.0	$\sum_i \Gamma_i^2$
12	4	{0.6; 0.6; 0.6}	1.0	$\sum_i \Gamma_i^2$
13	4	{0.4; 0.4; 0.7}	0.1	$\sum_i \Gamma_i^2$
14	4	{0.6; 0.6; 0.6}	0.1	$\sum_i \Gamma_i^2$

Table 51: 3D Problem list and their specificities.

precision	solver	prep.time	comput.time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	55.07e-6	268.4	268.4	04:28	4272203	62.83e-6	2.6120	100.0	100.0	100.0
	Bernstein	89.93	27.52	117.4	01:57	1268249	21.70e-6	2.6084	10.25	43.75	29.69
	MinVariance	153.1	28.86	181.9	03:01	1379659	20.92e-6	2.6086	10.75	67.77	32.29
	BSplines	95.29	58.47	153.8	02:33	3196075	18.29e-6	2.6100	21.78	57.28	74.81
	MinNorm	154.2	27.15	181.3	03:01	1327313	20.46e-6	2.6085	10.12	67.56	31.07
	MinVolume	142.5	29.66	172.2	02:52	1489937	19.91e-6	2.6087	11.05	64.14	34.88
	ApproxMinVolume	146.7	29.69	176.4	02:56	1492819	19.89e-6	2.6087	11.06	65.70	34.94
	Recursive	104.9	26.95	131.9	02:11	1270375	21.22e-6	2.6084	10.04	49.13	29.74
	Recursive2	120.3	26.88	147.2	02:27	1270105	21.16e-6	2.6084	10.01	54.84	29.73
0.01	Interval	30.99e-6	24.53	24.53	24.531	401723	61.06e-6	2.7144	100.0	100.0	100.0
	Bernstein	89.60	3.151	92.75	01:32	116209	27.11e-6	2.6766	12.84	378.1	28.93
	MinVariance	158.4	3.188	161.6	02:41	123359	25.84e-6	2.6783	12.99	658.6	30.71
	BSplines	95.63	5.464	101.1	01:41	208225	26.24e-6	2.6975	22.27	412.1	51.83
	MinNorm	153.3	3.139	156.5	02:36	119935	26.18e-6	2.6775	12.80	637.9	29.86
	MinVolume	148.2	3.440	151.6	02:31	129969	26.47e-6	2.6799	14.02	618.1	32.35
	ApproxMinVolume	145.7	3.541	149.2	02:29	130143	27.21e-6	2.6799	14.43	608.3	32.40
	Recursive	104.7	3.246	108.0	01:47	117323	27.67e-6	2.6766	13.23	440.1	29.20
	Recursive2	119.8	3.284	123.1	02:03	117539	27.94e-6	2.6766	13.39	501.6	29.26

Table 52: Bisection of problem 3D with problem: 1, type: MinFirst

precision	solver	prep.time	comput.time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	32.90e-6	1.563	1.563	1.563	24393	64.06e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.48	188.7e-3	89.67	01:29	4157	45.38e-6	infeasible	12.07	5738.0	17.04
	MinVariance	156.3	179.7e-3	156.5	02:36	4157	43.24e-6	infeasible	11.50	10014.1	17.04
	BSplines	96.50	203.5e-3	96.70	01:36	4157	48.97e-6	infeasible	13.03	6188.1	17.04
	MinNorm	150.7	184.7e-3	150.9	02:30	4157	44.42e-6	infeasible	11.82	9656.6	17.04
	MinVolume	144.6	192.7e-3	144.8	02:24	4157	46.35e-6	infeasible	12.33	9263.6	17.04
	ApproxMinVolume	140.2	192.4e-3	140.4	02:20	4157	46.28e-6	infeasible	12.31	8985.3	17.04
	Recursive	105.1	189.3e-3	105.3	01:45	4157	45.54e-6	infeasible	12.11	6736.3	17.04
	Recursive2	119.9	189.6e-3	120.0	02:00	4157	45.60e-6	infeasible	12.13	7681.7	17.04
0.01	Interval	45.06e-6	1.672	1.672	1.672	24393	68.54e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.86	191.4e-3	90.05	01:30	4157	46.05e-6	infeasible	11.45	5385.7	17.04
	MinVariance	162.0	185.7e-3	162.2	02:42	4157	44.68e-6	infeasible	11.11	9703.2	17.04
	BSplines	96.26	199.5e-3	96.46	01:36	4157	47.98e-6	infeasible	11.93	5769.4	17.04
	MinNorm	156.8	192.8e-3	157.0	02:36	4157	46.37e-6	infeasible	11.53	9389.9	17.04
	MinVolume	150.3	196.2e-3	150.5	02:30	4157	47.21e-6	infeasible	11.74	8999.9	17.04
	ApproxMinVolume	147.5	197.2e-3	147.7	02:27	4157	47.43e-6	infeasible	11.79	8832.9	17.04
	Recursive	105.1	188.4e-3	105.3	01:45	4157	45.33e-6	infeasible	11.27	6299.8	17.04
	Recursive2	120.2	189.1e-3	120.4	02:00	4157	45.49e-6	infeasible	11.31	7200.2	17.04

Table 53: Bisection of problem 3D with problem: 2, type: MinFirst

precision	solver	prep.time	comput.time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	36.95e-6	283.0	283.0	04:42	4461159	63.43e-6	2.6120	100.0	100.0	100.0
	Bernstein	89.20	29.68	118.9	01:58	1268485	23.39e-6	2.6084	10.49	42.01	28.43
	MinVariance	160.2	32.76	193.0	03:12	1383413	23.68e-6	2.6086	11.58	68.20	31.01
	BSplines	95.90	70.43	166.3	02:46	3265633	21.57e-6	2.6100	24.89	58.78	73.20
	MinNorm	155.6	32.50	188.1	03:08	1329327	24.45e-6	2.6085	11.48	66.48	29.80
	MinVolume	149.2	35.02	184.2	03:04	1496455	23.40e-6	2.6087	12.38	65.08	33.54
	ApproxMinVolume	146.4	35.73	182.1	03:02	1499327	23.83e-6	2.6087	12.63	64.36	33.61
	Recursive	104.8	30.58	135.4	02:15	1270659	24.07e-6	2.6084	10.81	47.83	28.48
	Recursive2	119.8	30.02	149.8	02:29	1270449	23.63e-6	2.6084	10.61	52.94	28.48
0.01	Interval	41.96e-6	25.23	25.23	25.231	396967	63.56e-6	2.7144	100.0	100.0	100.0
	Bernstein	89.69	4.003	93.69	01:33	114233	35.04e-6	2.6766	15.87	371.3	28.78
	MinVariance	164.7	4.307	169.0	02:48	121209	35.53e-6	2.6783	17.07	669.6	30.53
	BSplines	95.95	7.112	103.1	01:43	201303	35.33e-6	2.6975	28.19	408.5	50.71
	MinNorm	154.1	3.939	158.1	02:38	117841	33.43e-6	2.6775	15.61	626.5	29.69
	MinVolume	148.6	4.414	153.0	02:32	127467	34.63e-6	2.6799	17.50	606.3	32.11
	ApproxMinVolume	146.6	4.462	151.0	02:31	127643	34.96e-6	2.6799	17.69	598.5	32.15
	Recursive	105.3	4.045	109.3	01:49	115373	35.06e-6	2.6766	16.03	433.2	29.06
	Recursive2	119.4	4.075	123.5	02:03	115651	35.23e-6	2.6766	16.15	489.6	29.13

Table 54: Bisection of problem 3D with problem: 3, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	32.19e-6	935.8e-3	935.8e-3	0.936	15151	61.76e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.23	203.1e-3	89.44	01:29	2207	92.02e-6	infeasible	21.70	9557.1	14.57
	MinVariance	158.8	201.3e-3	159.0	02:39	2207	91.20e-6	infeasible	21.51	16993.8	14.57
	BSplines	95.62	244.2e-3	95.86	01:35	2637	92.59e-6	infeasible	26.09	10243.5	17.40
	MinNorm	154.6	198.1e-3	154.7	02:34	2205	89.82e-6	infeasible	21.16	16536.1	14.55
	MinVolume	150.3	211.5e-3	150.5	02:30	2257	93.69e-6	infeasible	22.60	16086.4	14.90
	ApproxMinVolume	147.7	209.8e-3	147.9	02:27	2257	92.98e-6	infeasible	22.42	15800.0	14.90
0.01	Recursive	104.2	213.9e-3	104.5	01:44	2285	93.60e-6	infeasible	22.85	11161.3	15.08
	Recursive2	121.0	218.7e-3	121.2	02:01	2309	94.72e-6	infeasible	23.37	12956.2	15.24
	Interval	41.96e-6	993.0e-3	993.0e-3	0.993	15151	65.54e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.34	202.2e-3	89.54	01:29	2207	91.63e-6	infeasible	20.37	9017.1	14.57
	MinVariance	158.9	198.1e-3	159.1	02:39	2207	89.74e-6	infeasible	19.95	16026.5	14.57
	BSplines	95.84	242.7e-3	96.08	01:36	2637	92.05e-6	infeasible	24.45	9675.9	17.40
	MinNorm	154.0	200.7e-3	154.2	02:34	2205	91.01e-6	infeasible	20.21	15532.8	14.55
0.001	MinVolume	148.6	206.8e-3	148.9	02:28	2257	91.64e-6	infeasible	20.83	14990.0	14.90
	ApproxMinVolume	147.0	214.5e-3	147.2	02:27	2257	95.02e-6	infeasible	21.60	14826.4	14.90
	Recursive	105.2	214.6e-3	105.4	01:45	2285	93.90e-6	infeasible	21.61	10612.9	15.08
	Recursive2	120.9	216.5e-3	121.1	02:01	2309	93.77e-6	infeasible	21.81	12194.6	15.24

Table 55: Bissection of problem 3D with problem: 4, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	33.00e-6	in progress	> 60 days							
	Bernstein	380.5	2164000	2164000	25-01:06:40	37923617025	57.06e-6	2.3211			
	MinVariance	421.3	2493120	2493120	28-20:32:00	43275698195	57.61e-6	2.3213			
	BSplines	391.8	in progress	> 60 days							
	MinNorm	414.0	2343590	2343590	27-02:59:50	40763306011	57.49e-6	2.3212			
	MinVolume	410.2	2725160	2725160	31-12:59:20	48888845645	55.74e-6	2.3214			
	ApproxMinVolume	400.7	2762980	2762980	31-23:29:40	49029888994	56.35e-6	2.3214			
0.01	Recursive	384.9	2174260	2174260	25-03:57:40	37981856936	57.24e-6	2.3211			
	Recursive2	381.7	2186080	2186080	25-07:14:40	37939553861	57.62e-6	2.3211			
	Interval	29.00e-6	1181660	1181660	13-16:14:20	13011250679	90.82e-6	2.4334	100.0	100.0	100.0
	Bernstein	390.2	50438	50829	14:07:09	701021679	71.95e-6	2.4050	4.268	4.301	5.388
	MinVariance	427.5	56886	57314	15:55:14	773715037	73.52e-6	2.4067	4.814	4.850	5.947
	BSplines	397.9	136818	136818	1-14:00:18	1982114276	69.03e-6	2.4265	11.58	11.58	15.23
	MinNorm	419.4	53384	53803	14:56:43	739932007	72.15e-6	2.4059	4.518	4.553	5.687
0.001	MinVolume	415.8	60804	61220	17:00:20	847192993	71.77e-6	2.4083	5.146	5.181	6.511
	ApproxMinVolume	406.7	61037	61444	17:04:04	849137219	71.88e-6	2.4083	5.165	5.200	6.526
	Recursive	390.7	50306	50697	14:04:57	707422381	71.11e-6	2.4050	4.257	4.290	5.437
	Recursive2	389.2	50632	51022	14:10:22	704450383	71.88e-6	2.4050	4.285	4.318	5.414

Table 56: Bissection of problem 3D with problem: 5, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	34.00e-6	39924	39924	11:05:24	445969679	89.52e-6	infeasible	100.0	100.0	100.0
	Bernstein	390.4	892.8	1283	21:23	8525007	104.7e-6	infeasible	2.236	3.214	1.912
	MinVariance	428.0	902.5	1330	22:10	8525007	105.9e-6	infeasible	2.261	3.332	1.912
	BSplines	395.9	907.4	1303	21:43	8525007	106.4e-6	infeasible	2.273	3.264	1.912
	MinNorm	419.3	882.6	1301	21:41	8525007	103.5e-6	infeasible	2.211	3.261	1.912
	MinVolume	415.0	886.5	1301	21:41	8525007	104.0e-6	infeasible	2.220	3.260	1.912
	ApproxMinVolume	405.8	894.0	1299	21:39	8525007	104.9e-6	infeasible	2.239	3.256	1.912
0.01	Recursive	390.0	882.1	1272	21:12	8525007	103.5e-6	infeasible	2.209	3.186	1.912
	Recursive2	389.7	876.5	1266	21:06	8525007	102.8e-6	infeasible	2.195	3.172	1.912
	Interval	30.04e-6	39475	39475	10:57:55	445969679	88.52e-6	infeasible	100.0	100.0	100.0
	Bernstein	387.4	891.8	1279	21:19	8525007	104.6e-6	infeasible	2.259	3.241	1.912
	MinVariance	425.1	903.8	1328	22:08	8525007	106.0e-6	infeasible	2.289	3.366	1.912
	BSplines	392.9	899.2	1292	21:32	8525007	105.5e-6	infeasible	2.278	3.273	1.912
	MinNorm	416.1	894.0	1310	21:50	8525007	104.9e-6	infeasible	2.265	3.319	1.912
0.001	MinVolume	415.2	889.1	1304	21:44	8525007	104.3e-6	infeasible	2.252	3.304	1.912
	ApproxMinVolume	404.4	888.0	1292	21:32	8525007	104.2e-6	infeasible	2.249	3.274	1.912
	Recursive	389.3	876.8	1266	21:06	8525007	102.8e-6	infeasible	2.221	3.207	1.912
	Recursive2	397.4	888.2	1285	21:25	8525007	104.2e-6	infeasible	2.250	3.257	1.912

Table 57: Bissection of problem 3D with problem: 6, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	35.00e-6	in progress	> 60 days							
	Bernstein	384.5	2225320	2225320	25-18:08:40	37960519007	58.62e-6	2.3211			
	MinVariance	421.3	2549850	2549850	29-12:17:30	43310199463	58.87e-6	2.3213			
	BSplines	390.3	in progress	> 60 days							
	MinNorm	412.2	2434670	2434670	28-04:17:50	40798936423	59.67e-6	2.3212			
	MinVolume	409.5	2774500	2774500	32-02:41:40	48910796304	56.73e-6	2.3214			
	ApproxMinVolume	400.3	2816500	2816500	32-14:21:40	49061766678	57.41e-6	2.3214			
0.01	Recursive	387.1	2215240	2215240	25-15:20:40	38008755563	58.28e-6	2.3211			
	Recursive2	376.2	2243830	2243830	25-23:17:10	37976413067	59.08e-6	2.3211			
	Interval	36.00e-6	1160340	1160340	13-10:19:00	12442500587	93.26e-6	2.4334	100.0	100.0	100.0
	Bernstein	390.8	64617	65008	18:03:28	721345765	89.58e-6	2.4050	5.569	5.603	5.797
	MinVariance	429.0	70628	71057	19:44:17	793148783	89.05e-6	2.4067	6.087	6.124	6.375
	BSplines	397.4	159015	159016	1-20:10:16	1981282258	80.26e-6	2.4265	13.70	13.70	15.92
	MinNorm	421.7	68121	68543	19:02:23	759790583	89.66e-6	2.4059	5.871	5.907	6.106
0.001	MinVolume	418.5	74383	74802	20:46:42	865656029	85.93e-6	2.4083	6.411	6.447	6.957
	ApproxMinVolume	408.9	74960	75369	20:56:09	867573993	86.40e-6	2.4083	6.460	6.495	6.973
	Recursive	393.2	65047	65440	18:10:40	727685465	89.39e-6	2.4050	5.606	5.640	5.848
	Recursive2	393.6	65473	65867	18:17:47	724746019	90.34e-6	2.4050	5.643	5.677	5.825

Table 58: Bissection of problem 3D with problem: 7, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	44.11e-6	20472	20472	05:41:12	229302217	89.28e-6	infeasible	100.0	100.0	100.0
	Bernstein	382.8	946.9	1329	22:09	4457773	212.4e-6	infeasible	4.625	6.495	1.944
	MinVariance	420.7	938.0	1358	22:38	4457773	210.4e-6	infeasible	4.582	6.637	1.944
	BSplines	389.7	940.2	1329	22:09	4457773	210.9e-6	infeasible	4.592	6.496	1.944
	MinNorm	413.5	933.1	1346	22:26	4457773	209.3e-6	infeasible	4.558	6.578	1.944
	MinVolume	408.4	931.2	1339	22:19	4457773	208.9e-6	infeasible	4.549	6.544	1.944
	ApproxMinVolume	401.3	923.6	1324	22:04	4457773	207.2e-6	infeasible	4.511	6.471	1.944
	Recursive	386.9	929.1	1316	21:56	4457773	208.4e-6	infeasible	4.538	6.428	1.944
0.01	Recursive2	386.7	937.2	1323	22:03	4457773	210.2e-6	infeasible	4.578	6.467	1.944
	Interval	34.09e-6	20489	20489	05:41:29	229302217	89.36e-6	infeasible	100.0	100.0	100.0
	Bernstein	389.5	929.9	1319	21:59	4457773	208.6e-6	infeasible	4.538	6.439	1.944
	MinVariance	426.9	939.2	1366	22:46	4457773	210.7e-6	infeasible	4.584	6.667	1.944
	BSplines	395.9	934.2	1330	22:10	4457773	209.6e-6	infeasible	4.559	6.492	1.944
	MinNorm	418.2	918.9	1337	22:17	4457773	206.1e-6	infeasible	4.485	6.526	1.944
	MinVolume	416.1	922.2	1338	22:18	4457773	206.9e-6	infeasible	4.501	6.532	1.944
	ApproxMinVolume	404.4	935.8	1340	22:20	4457773	209.9e-6	infeasible	4.567	6.541	1.944
Recursive	386.9	938.8	1325	22:05	4457773	210.6e-6	infeasible	4.582	6.470	1.944	
	Recursive2	388.3	937.0	1325	22:05	4457773	210.2e-6	infeasible	4.573	6.468	1.944

Table 59: Bissection of problem 3D with problem: 8, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	30.04e-6	2707	2707	45:07	45914699	58.98e-6	386.24	100.0	100.0	100.0
	Bernstein	95.74	1134	1230	20:30	9843397	115.3e-6	385.26	41.91	45.45	21.44
	MinVariance	168.3	1481	1649	27:29	11424189	129.7e-6	385.34	54.70	60.91	24.88
	BSplines	101.4	5195	5297	01:28:17	49085549	105.9e-6	386.51	191.9	195.6	106.9
	MinNorm	160.8	1350	1511	25:11	10714959	126.1e-6	385.30	49.89	55.83	23.34
	MinVolume	158.2	1621	1780	29:40	13020547	124.6e-6	385.41	59.89	65.73	28.36
	ApproxMinVolume	155.3	1614	1769	29:29	13067405	123.5e-6	385.41	59.61	65.34	28.46
	Recursive	111.0	1151	1262	21:02	9867833	116.7e-6	385.26	42.52	46.62	21.49
0.01	Recursive2	127.0	1183	1310	21:50	9894687	119.6e-6	385.26	43.69	48.38	21.55
	Interval	38.15e-6	57.04	57.04	57.041	904577	63.06e-6	414.99	100.0	100.0	100.0
	Bernstein	96.51	26.38	122.9	02:02	206623	127.7e-6	404.04	46.25	215.4	22.84
	MinVariance	167.6	30.91	198.5	03:18	225459	137.1e-6	405.30	54.18	348.0	24.92
	BSplines	101.7	62.87	164.5	02:44	482219	130.4e-6	425.62	110.2	288.5	53.31
	MinNorm	160.2	30.28	190.5	03:10	216861	139.6e-6	404.71	53.09	334.0	23.97
	MinVolume	157.8	34.23	192.1	03:12	249181	137.4e-6	406.55	60.02	336.7	27.55
	ApproxMinVolume	155.3	34.20	189.5	03:09	250067	136.8e-6	406.58	59.95	332.2	27.64
Recursive	111.0	27.43	138.4	02:18	212409	129.1e-6	404.04	48.08	242.6	23.48	
	Recursive2	127.1	28.06	155.1	02:35	212551	132.0e-6	404.04	49.18	271.9	23.50

Table 60: Bissection of problem 3D with problem: 11, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	37.19e-6	1.540	1.540	1.540	24393	63.12e-6	infeasible	100.0	100.0	100.0
	Bernstein	95.87	194.0e-3	96.06	01:36	4157	46.67e-6	infeasible	12.60	6239.1	17.04
	MinVariance	165.1	726.8e-3	165.9	02:45	4157	174.8e-6	infeasible	47.21	10773.4	17.04
	BSplines	101.7	203.3e-3	101.9	01:41	4157	48.90e-6	infeasible	13.20	6618.2	17.04
	MinNorm	158.6	176.1e-3	158.8	02:38	4157	42.36e-6	infeasible	11.44	10312.5	17.04
	MinVolume	156.9	220.1e-3	157.1	02:37	4157	52.94e-6	infeasible	14.29	10204.0	17.04
	ApproxMinVolume	154.2	193.7e-3	154.4	02:34	4157	46.59e-6	infeasible	12.58	10030.7	17.04
	Recursive	111.2	225.8e-3	111.4	01:51	4157	54.32e-6	infeasible	14.67	7234.2	17.04
0.01	Recursive2	127.1	191.5e-3	127.3	02:07	4157	46.06e-6	infeasible	12.44	8269.5	17.04
	Interval	31.95e-6	1.542	1.542	1.542	24393	63.20e-6	infeasible	100.0	100.0	100.0
	Bernstein	95.76	194.4e-3	95.95	01:35	4157	46.77e-6	infeasible	12.61	6224.1	17.04
	MinVariance	168.1	179.8e-3	168.3	02:48	4157	43.24e-6	infeasible	11.66	10918.0	17.04
	BSplines	101.6	237.9e-3	101.8	01:41	4157	57.24e-6	infeasible	15.43	6603.2	17.04
	MinNorm	161.2	181.0e-3	161.4	02:41	4157	43.54e-6	infeasible	11.74	10468.7	17.04
	MinVolume	159.0	195.0e-3	159.2	02:39	4157	46.90e-6	infeasible	12.65	10323.8	17.04
	ApproxMinVolume	156.6	197.7e-3	156.8	02:36	4157	47.55e-6	infeasible	12.82	10171.4	17.04
Recursive	111.1	190.6e-3	111.2	01:51	4157	45.85e-6	infeasible	12.36	7216.4	17.04	
	Recursive2	127.3	193.1e-3	127.5	02:07	4157	46.46e-6	infeasible	12.53	8271.8	17.04

Table 61: Bissection of problem 3D with problem: 12, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	48.88e-6	2639	2639	43:59	45913293	57.50e-6	386.24	100.0	100.0	100.0
	Bernstein	95.83	1133	1229	20:29	9843061	115.2e-6	385.26	42.94	46.57	21.44
	MinVariance	168.4	1480	1649	27:29	11423655	129.6e-6	385.34	56.09	62.47	24.88
	BSplines	101.6	5213	5315	01:28:35	49081787	106.2e-6	386.51	197.5	201.3	106.9
	MinNorm	160.3	1357	1517	25:17	10714497	126.7e-6	385.30	51.43	57.50	23.34
	MinVolume	158.1	1607	1765	29:25	13019791	123.5e-6	385.41	60.89	66.88	28.36
	ApproxMinVolume	155.2	1604	1760	29:20	13066645	122.8e-6	385.41	60.80	66.68	28.46
	Recursive	110.8	1154	1264	21:04	9867101	117.0e-6	385.26	43.71	47.91	21.49
0.01	Recursive2	127.3	1186	1313	21:53	9893863	119.9e-6	385.26	44.94	49.76	21.55
	Interval	38.86e-6	56.72	56.716	902467	62.85e-6	414.99	100.0	100.0	100.0	100.0
	Bernstein	95.55	26.57	122.1	02:02	205055	129.6e-6	404.04	46.84	215.3	22.72
	MinVariance	167.4	30.63	198.0	03:18	223755	136.9e-6	405.30	54.00	349.2	24.79
	BSplines	101.6	62.13	163.7	02:43	475861	130.6e-6	425.62	109.6	288.7	52.73
	MinNorm	160.6	29.83	190.4	03:10	215179	138.6e-6	404.71	52.59	335.7	23.84
	MinVolume	157.8	33.92	191.7	03:11	247349	137.2e-6	406.55	59.82	338.1	27.41
	ApproxMinVolume	155.9	34.20	190.1	03:10	248235	137.8e-6	406.58	60.30	335.1	27.51
Recursive	110.8	27.28	138.1	02:18	210455	129.6e-6	404.04	48.11	243.5	23.32	
	Recursive2	127.0	27.85	154.9	02:34	210501	132.3e-6	404.04	49.10	273.1	23.33

Table 62: Bissection of problem 3D with problem: 13, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	32.90e-6	974.3e-3	974.3e-3	0.974	15151	64.30e-6	infeasible	100.0	100.0	100.0
	Bernstein	95.81	206.5e-3	96.02	01:36	2207	93.56e-6	infeasible	21.19	9854.8	14.57
	MinVariance	165.0	192.6e-3	165.2	02:45	2207	87.26e-6	infeasible	19.77	16953.6	14.57
	BSplines	101.7	244.6e-3	101.9	01:41	2637	92.76e-6	infeasible	25.11	10462.9	17.40
	MinNorm	159.1	195.2e-3	159.3	02:39	2205	88.52e-6	infeasible	20.03	16345.5	14.55
	MinVolume	156.8	204.9e-3	157.0	02:36	2257	90.78e-6	infeasible	21.03	16111.2	14.90
	ApproxMinVolume	154.6	211.2e-3	154.8	02:34	2257	93.58e-6	infeasible	21.68	15890.1	14.90
	Recursive	111.4	213.3e-3	111.6	01:51	2285	93.35e-6	infeasible	21.89	11453.0	15.08
0.01	Recursive2	127.0	215.6e-3	127.2	02:07	2309	93.38e-6	infeasible	22.13	13057.4	15.24
	Interval	37.19e-6	898.6e-3	898.6e-3	0.899	15151	59.31e-6	infeasible	100.0	100.0	100.0
	Bernstein	95.74	205.7e-3	95.94	01:35	2207	93.18e-6	infeasible	22.89	10676.9	14.57
	MinVariance	168.1	199.1e-3	168.3	02:48	2207	90.23e-6	infeasible	22.16	18726.3	14.57
	BSplines	101.7	244.8e-3	101.9	01:41	2637	92.83e-6	infeasible	27.24	11344.3	17.40
	MinNorm	161.7	203.3e-3	161.9	02:41	2205	92.21e-6	infeasible	22.63	18015.7	14.55
	MinVolume	159.1	212.3e-3	159.3	02:39	2257	94.08e-6	infeasible	23.63	17726.8	14.90
	ApproxMinVolume	156.0	218.1e-3	156.2	02:36	2257	96.64e-6	infeasible	24.27	17386.0	14.90
0.01	Recursive	110.7	214.1e-3	110.9	01:50	2285	93.70e-6	infeasible	23.83	12343.3	15.08
	Recursive2	127.3	217.6e-3	127.6	02:07	2309	94.26e-6	infeasible	24.22	14195.0	15.24

Table 63: Bissection of problem 3D with problem: 14, type: MinFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	32.90e-6	83.36	83.36	01:23	1316157	63.34e-6	2.6120	100.0	100.0	100.0
	Bernstein	88.95	7.566	96.51	01:36	385193	19.64e-6	2.6084	9.077	115.8	29.27
	MinVariance	163.1	7.736	170.9	02:50	427167	18.11e-6	2.6086	9.280	205.0	32.46
	BSplines	96.59	18.74	115.3	01:55	1112923	16.84e-6	2.6100	22.48	138.3	84.56
	MinNorm	158.1	7.797	165.9	02:45	407805	19.12e-6	2.6085	9.353	199.1	30.98
	MinVolume	151.4	9.076	160.5	02:40	471811	19.24e-6	2.6087	10.89	192.5	35.85
	ApproxMinVolume	148.4	9.325	157.7	02:37	472951	19.72e-6	2.6087	11.19	189.2	35.93
	Recursive	105.7	7.580	113.2	01:53	385813	19.65e-6	2.6084	9.093	135.8	29.31
0.01	Recursive2	121.0	7.656	128.6	02:08	386967	19.79e-6	2.6084	9.184	154.3	29.40
	Interval	40.05e-6	9.641	9.641	154829	62.27e-6	2.7144	100.0	100.0	100.0	100.0
	Bernstein	89.73	1.042	90.77	01:30	37321	27.91e-6	2.6766	10.80	941.5	24.10
	MinVariance	158.9	1.079	159.9	02:39	39779	27.12e-6	2.6783	11.19	1659.0	25.69
	BSplines	95.82	1.864	97.69	01:37	68765	27.11e-6	2.6975	19.33	1013.3	44.41
	MinNorm	153.8	1.050	154.8	02:34	38621	27.18e-6	2.6775	10.89	1605.8	24.94
	MinVolume	148.3	1.140	149.4	02:29	42283	26.96e-6	2.6799	11.82	1549.6	27.31
	ApproxMinVolume	145.8	1.200	147.0	02:26	42337	28.34e-6	2.6799	12.45	1524.4	27.34
0.01	Recursive	104.8	1.065	105.9	01:45	37933	28.07e-6	2.6766	11.04	1098.5	24.50
	Recursive2	119.5	1.102	120.6	02:00	38543	28.59e-6	2.6766	11.43	1251.2	24.89

Table 64: Bissection of problem 3D with problem: 1, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	50.07e-6	1.566	1.566	1.566	24393	64.20e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.68	191.4e-3	89.87	01:29	4157	46.03e-6	infeasible	12.22	5738.2	17.04
	MinVariance	162.6	181.7e-3	162.8	02:42	4157	43.72e-6	infeasible	11.60	10395.7	17.04
	BSplines	95.47	200.5e-3	95.67	01:35	4157	48.24e-6	infeasible	12.81	6108.6	17.04
	MinNorm	154.5	182.3e-3	154.7	02:34	4157	43.85e-6	infeasible	11.64	9878.3	17.04
	MinVolume	148.7	186.8e-3	148.8	02:28	4157	44.93e-6	infeasible	11.93	9504.4	17.04
	ApproxMinVolume	146.0	196.3e-3	146.2	02:26	4157	47.23e-6	infeasible	12.54	9336.1	17.04
	Recursive	105.2	189.2e-3	105.4	01:45	4157	45.52e-6	infeasible	12.08	6730.9	17.04
0.01	Recursive2	119.4	188.7e-3	119.6	01:59	4157	45.39e-6	infeasible	12.05	7634.1	17.04
	Interval	27.89e-6	1.520	1.521	1.521	24393	62.33e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.70	191.9e-3	89.89	01:29	4157	46.17e-6	infeasible	12.62	5911.6	17.04
	MinVariance	164.2	198.6e-3	164.4	02:44	4157	47.78e-6	infeasible	13.06	10815.0	17.04
	BSplines	95.28	197.9e-3	95.48	01:35	4157	47.61e-6	infeasible	13.02	6279.4	17.04
	MinNorm	158.9	195.1e-3	159.1	02:39	4157	46.94e-6	infeasible	12.83	10460.8	17.04
	MinVolume	151.0	196.3e-3	151.2	02:31	4157	47.22e-6	infeasible	12.91	9943.9	17.04
	ApproxMinVolume	148.0	194.5e-3	148.2	02:28	4157	46.79e-6	infeasible	12.79	9745.0	17.04
0.01	Recursive	104.8	188.0e-3	105.0	01:44	4157	45.23e-6	infeasible	12.37	6902.6	17.04
	Recursive2	119.9	188.3e-3	120.1	02:00	4157	45.30e-6	infeasible	12.39	7898.2	17.04

Table 65: Bissection of problem 3D with problem: 2, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	39.10e-6	114.9	114.9	01:54	1858809	61.81e-6	2.6120	100.0	100.0	100.0
	Bernstein	66.59	12.65	79.24	01:19	442385	28.60e-6	2.6084	11.01	68.97	23.80
	MinVariance	126.5	15.14	141.7	02:21	493407	30.69e-6	2.6086	13.18	123.3	26.54
	BSplines	72.20	33.80	106.0	01:46	1317809	25.65e-6	2.6100	29.42	92.26	70.90
	MinNorm	112.9	14.06	127.0	02:06	469353	29.95e-6	2.6085	12.23	110.5	25.25
	MinVolume	115.0	15.95	130.9	02:10	545359	29.26e-6	2.6087	13.89	113.9	29.34
	ApproxMinVolume	108.2	15.99	124.2	02:04	546659	29.26e-6	2.6087	13.92	108.1	29.41
	Recursive	77.84	12.87	90.71	01:30	443105	29.04e-6	2.6084	11.20	78.94	23.84
0.01	Recursive2	92.83	12.90	105.7	01:45	444233	29.03e-6	2.6084	11.23	92.02	23.90
	Interval	36.00e-6	10.15	10.15	159279	63.75e-6	2.7144	100.0	100.0	100.0	100.0
	Bernstein	89.18	1.503	90.68	01:30	38673	38.87e-6	2.6766	14.80	893.1	24.28
	MinVariance	161.7	1.551	163.3	02:43	41101	37.74e-6	2.6783	15.27	1608.0	25.80
	BSplines	96.06	2.680	98.74	01:38	68621	39.05e-6	2.6975	26.39	972.4	43.08
	MinNorm	157.3	1.554	158.9	02:38	39963	38.89e-6	2.6775	15.31	1564.4	25.09
	MinVolume	150.5	1.713	152.2	02:32	43655	39.23e-6	2.6799	16.87	1498.7	27.41
	ApproxMinVolume	147.5	1.783	149.3	02:29	43715	40.78e-6	2.6799	17.56	1470.4	27.45
0.01	Recursive	105.1	1.563	106.7	01:46	39353	39.72e-6	2.6766	15.39	1050.8	24.71
	Recursive2	120.3	1.577	121.9	02:01	39897	39.53e-6	2.6766	15.53	1200.4	25.05

Table 66: Bissection of problem 3D with problem: 3, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	38.15e-6	939.6e-3	939.7e-3	0.940	15151	62.02e-6	infeasible	100.0	100.0	100.0
	Bernstein	67.27	201.0e-3	67.47	01:07	2207	91.07e-6	infeasible	21.39	7179.9	14.57
	MinVariance	136.9	215.2e-3	137.1	02:17	2207	97.51e-6	infeasible	22.90	14593.1	14.57
	BSplines	73.01	243.2e-3	73.25	01:13	2637	92.21e-6	infeasible	25.88	7795.3	17.40
	MinNorm	132.0	213.7e-3	132.2	02:12	2205	96.93e-6	infeasible	22.75	14066.5	14.55
	MinVolume	115.1	186.5e-3	115.3	01:55	2257	82.63e-6	infeasible	19.85	12271.7	14.90
	ApproxMinVolume	117.1	195.8e-3	117.2	01:57	2257	86.77e-6	infeasible	20.84	12477.9	14.90
0.01	Recursive	91.08	198.5e-3	91.28	01:31	2285	86.87e-6	infeasible	21.12	9713.7	15.08
	Recursive2	98.25	186.6e-3	98.43	01:38	2309	80.80e-6	infeasible	19.86	10475.4	15.24
	Interval	35.05e-6	945.4e-3	945.4e-3	0.945	15151	62.40e-6	infeasible	100.0	100.0	100.0
	Bernstein	89.32	201.1e-3	89.52	01:29	2207	91.11e-6	infeasible	21.27	9469.3	14.57
	MinVariance	160.4	197.8e-3	160.6	02:40	2207	89.60e-6	infeasible	20.92	16990.1	14.57
	BSplines	96.68	243.6e-3	96.92	01:36	2637	92.37e-6	infeasible	25.77	10251.9	17.40
	MinNorm	156.2	212.1e-3	156.4	02:36	2205	96.18e-6	infeasible	22.43	16539.6	14.55
0.1	MinVolume	150.5	215.2e-3	150.7	02:30	2257	95.35e-6	infeasible	22.76	15939.3	14.90
	ApproxMinVolume	148.0	217.0e-3	148.3	02:28	2257	96.13e-6	infeasible	22.95	15681.9	14.90
	Recursive	105.2	212.4e-3	105.5	01:45	2285	92.96e-6	infeasible	22.47	11155.0	15.08
	Recursive2	119.8	213.1e-3	120.1	02:00	2309	92.28e-6	infeasible	22.54	12698.8	15.24

Table 67: Bissection of problem 3D with problem: 4, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	44.00e-6	1961390	1961390	22-16:49:50	21725405270	90.28e-6	2.3241	100.0	100.0	100.0
	Bernstein	369.5	341713	342083	3-23:01:23	5158711215	66.24e-6	2.3211	17.42	17.44	23.75
	MinVariance	405.6	373862	374268	4-07:57:48	5603984063	66.71e-6	2.3213	19.06	19.08	25.79
	BSplines	377.9	785881	785882	9-02:18:02	13501926220	58.21e-6	2.3228	40.07	40.07	62.15
	MinNorm	415.6	355407	355823	4-02:50:23	5396965307	65.85e-6	2.3212	18.12	18.14	24.84
	MinVolume	413.9	390702	391116	4-12:38:36	6054653853	64.53e-6	2.3214	19.92	19.94	27.87
	ApproxMinVolume	399.8	395183	395583	4-13:53:03	6066574285	65.14e-6	2.3214	20.15	20.17	27.92
0.01	Recursive	389.5	336452	336841	3-21:34:01	5158943727	65.22e-6	2.3211	17.15	17.17	23.75
	Recursive2	391.2	344116	344507	3-23:41:47	5166944403	66.60e-6	2.3211	17.54	17.56	23.78
	Interval	35.05e-6	69746	69746	19:22:26	772563369	90.28e-6	2.4334	100.0	100.0	100.0
	Bernstein	393.2	13012	13405	03:43:25	174381971	74.62e-6	2.4050	18.66	19.22	22.57
	MinVariance	433.4	14401	14834	04:07:14	188405815	76.44e-6	2.4067	20.65	21.27	24.39
	BSplines	400.2	29734	30134	08:22:14	415697327	71.53e-6	2.4265	42.63	43.21	53.81
	MinNorm	421.5	13586	14007	03:53:27	181903655	74.69e-6	2.4059	19.48	20.08	23.55
0.1	MinVolume	423.7	14931	15355	04:15:55	202463931	73.75e-6	2.4083	21.41	22.02	26.21
	ApproxMinVolume	411.5	14974	15385	04:16:25	202832813	73.82e-6	2.4083	21.47	22.06	26.25
	Recursive	279.0	13127	13406	03:43:26	174617583	75.18e-6	2.4050	18.82	19.22	22.60
	Recursive2	277.9	13427	13705	03:48:25	176765395	75.96e-6	2.4050	19.25	19.65	22.88

Table 68: Bissection of problem 3D with problem: 5, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	39.10e-6	39416	39416	10:56:56	445969679	88.38e-6	infeasible	100.0	100.0	100.0
	Bernstein	377.5	895.0	1272	21:12	8525007	105.0e-6	infeasible	2.271	3.228	1.912
	MinVariance	392.4	886.4	1278	21:18	8525007	104.0e-6	infeasible	2.249	3.244	1.912
	BSplines	359.2	882.2	1241	20:41	8525007	103.5e-6	infeasible	2.238	3.149	1.912
	MinNorm	408.6	882.3	1290	21:30	8525007	103.5e-6	infeasible	2.238	3.275	1.912
	MinVolume	400.8	886.9	1287	21:27	8525007	104.0e-6	infeasible	2.250	3.267	1.912
	ApproxMinVolume	375.4	896.4	1271	21:11	8525007	105.2e-6	infeasible	2.274	3.227	1.912
0.01	Recursive	377.3	890.4	1267	21:07	8525007	104.5e-6	infeasible	2.259	3.216	1.912
	Recursive2	376.2	878.4	1254	20:54	8525007	103.0e-6	infeasible	2.228	3.183	1.912
	Interval	26.94e-6	41124	41124	11:25:24	445969679	92.21e-6	infeasible	100.0	100.0	100.0
	Bernstein	274.5	887.1	1161	19:21	8525007	104.1e-6	infeasible	2.157	2.824	1.912
	MinVariance	302.5	880.7	1183	19:43	8525007	103.3e-6	infeasible	2.142	2.877	1.912
	BSplines	346.0	899.6	1245	20:45	8525007	105.5e-6	infeasible	2.188	3.029	1.912
	MinNorm	366.2	881.1	1247	20:47	8525007	103.4e-6	infeasible	2.143	3.033	1.912
0.1	MinVolume	297.4	876.2	1173	19:33	8525007	102.8e-6	infeasible	2.131	2.854	1.912
	ApproxMinVolume	294.0	903.1	1197	19:57	8525007	105.9e-6	infeasible	2.196	2.911	1.912
	Recursive	279.2	891.4	1170	19:30	8525007	104.6e-6	infeasible	2.168	2.847	1.912
	Recursive2	275.8	888.6	1164	19:24	8525007	104.2e-6	infeasible	2.161	2.832	1.912

Table 69: Bissection of problem 3D with problem: 6, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	31.00e-6	2070930	2070930	23-23:15:30	23210368008	89.22e-6	2.3241	100.0	100.0	100.0
	Bernstein	371.2	410597	410968	4-18:09:28	539404627	76.12e-6	2.3211	19.83	19.84	23.24
	MinVariance	420.9	445090	445510	5-03:45:10	5850239297	76.08e-6	2.3213	21.49	21.51	25.21
	BSplines	353.8	910582	910582	10-12:56:22	13881904718	65.59e-6	2.3228	43.97	43.97	59.81
	MinNorm	402.7	422038	422440	4-21:20:40	5638302317	74.85e-6	2.3212	20.38	20.40	24.29
	MinVolume	409.4	465253	465663	5-09:21:03	6311789809	73.71e-6	2.3214	22.47	22.49	27.19
	ApproxMinVolume	369.9	463804	464174	5-08:56:14	6323990517	73.34e-6	2.3214	22.40	22.41	27.25
0.01	Recursive	355.0	399527	399882	4-15:04:42	5394276879	74.07e-6	2.3211	19.29	19.31	23.24
	Recursive2	382.3	407990	408372	4-17:26:12	5402414799	75.52e-6	2.3211	19.70	19.72	23.28
	Interval	32.90e-6	127800	127800	1-11:30:00	1422543689	89.84e-6	2.4334	100.0	100.0	100.0
	Bernstein	273.2	45618	45891	12:44:51	318506213	143.2e-6	2.4050	35.69	35.91	22.39
	MinVariance	313.5	48763	49076	13:37:56	332585337	146.6e-6	2.4067	38.16	38.40	23.38
	BSplines	289.3	67921	68211	18:56:51	554047171	122.6e-6	2.4265	53.15	53.37	38.95
	MinNorm	298.0	47855	48153	13:22:33	326068257	146.8e-6	2.4059	37.45	37.68	22.92
0.1	MinVolume	302.6	49665	49968	13:52:48	346653905	143.3e-6	2.4083	38.86	39.10	24.37
	ApproxMinVolume	291.0	49713	50004	13:53:24	347021943	143.3e-6	2.4083	38.90	39.13	24.39
	Recursive	280.0	46999	47279	13:07:59	318741327	147.5e-6	2.4050	36.78	36.99	22.41
	Recursive2	287.3	47109	47396	13:09:56	320924305	146.8e-6	2.			

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	43.87e-6	20654	20654	05:44:14	229302217	90.08e-6	infeasible	100.0	100.0	100.0
	Bernstein	370.0	931.2	1301	21:41	4457773	208.9e-6	infeasible	4.509	6.300	1.944
	MinVariance	404.8	950.4	1355	22:35	4457773	213.2e-6	infeasible	4.601	6.561	1.944
	BSplines	378.2	940.0	1318	21:58	4457773	210.9e-6	infeasible	4.551	6.382	1.944
	MinNorm	397.4	934.3	1331	22:11	4457773	209.6e-6	infeasible	4.524	6.448	1.944
	MinVolume	308.0	937.2	1245	20:45	4457773	210.2e-6	infeasible	4.537	6.029	1.944
	ApproxMinVolume	302.5	922.0	1224	20:24	4457773	206.8e-6	infeasible	4.464	5.928	1.944
	Recursive	315.9	921.4	1237	20:37	4457773	206.7e-6	infeasible	4.461	5.991	1.944
0.01	Recursive2	333.5	925.1	1258	20:58	4457773	207.5e-6	infeasible	4.479	6.093	1.944
	Interval	29.09e-6	20779	20779	05:46:19	229302217	90.62e-6	infeasible	100.0	100.0	100.0
	Bernstein	275.3	936.4	1211	20:11	4457773	210.1e-6	infeasible	4.506	5.831	1.944
	MinVariance	315.0	950.2	1265	21:05	4457773	213.2e-6	infeasible	4.573	6.089	1.944
	BSplines	287.2	933.6	1220	20:20	4457773	209.4e-6	infeasible	4.493	5.875	1.944
	MinNorm	343.0	920.8	1263	21:03	4457773	206.6e-6	infeasible	4.431	6.082	1.944
	MinVolume	312.2	930.7	1242	20:42	4457773	208.8e-6	infeasible	4.479	5.981	1.944
	ApproxMinVolume	369.8	952.2	1322	22:02	4457773	213.6e-6	infeasible	4.583	6.362	1.944
Recursive	332.2	939.8	1271	21:11	4457773	210.8e-6	infeasible	4.523	6.121	1.944	
	Recursive2	283.1	926.5	1209	20:09	4457773	207.8e-6	infeasible	4.459	5.821	1.944

Table 71: Bissection of problem 3D with problem: 8, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	40.05e-6	1998	1998	33:18	36483067	54.78e-6	386.24	100.0	100.0	100.0
	Bernstein	96.19	747.1	843.3	14:03	6347179	117.7e-6	385.26	37.38	42.19	17.40
	MinVariance	168.0	947.0	1114	18:34	7229953	131.0e-6	385.34	47.38	55.78	19.82
	BSplines	101.6	4231	4333	01:12:13	40300001	105.0e-6	386.51	211.7	216.8	110.5
	MinNorm	160.1	880.5	1040	17:20	6826491	129.0e-6	385.30	44.05	52.06	18.71
	MinVolume	158.2	1043	1201	20:01	8309215	125.6e-6	385.41	52.21	60.12	22.78
	ApproxMinVolume	155.1	1054	1209	20:09	8349359	126.3e-6	385.41	52.74	60.50	22.89
	Recursive	110.5	768.4	878.9	14:38	6389281	120.3e-6	385.26	38.45	43.97	17.51
0.01	Recursive2	127.0	777.8	904.7	15:04	6365803	122.2e-6	385.26	38.91	45.27	17.45
	Interval	36.00e-6	56.05	56.05	56.049	910361	61.57e-6	414.99	100.0	100.0	100.0
	Bernstein	95.58	25.91	121.5	02:01	202943	127.7e-6	404.04	46.23	216.8	22.29
	MinVariance	167.5	29.96	197.5	03:17	221987	134.9e-6	405.30	53.44	352.3	24.38
	BSplines	101.0	61.35	162.3	02:42	475893	128.9e-6	425.62	109.4	289.6	52.28
	MinNorm	159.4	29.43	188.8	03:08	213119	138.1e-6	404.71	52.51	336.9	23.41
	MinVolume	157.4	33.40	190.8	03:10	245427	136.1e-6	406.55	59.59	340.4	26.96
	ApproxMinVolume	155.4	33.96	189.4	03:09	246173	137.9e-6	406.58	60.59	337.9	27.04
Recursive	111.2	27.46	138.6	02:18	208803	131.5e-6	404.04	48.98	247.4	22.94	
	Recursive2	126.7	27.39	154.1	02:34	208691	131.3e-6	404.04	48.88	274.9	22.92

Table 72: Bissection of problem 3D with problem: 11, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	36.95e-6	1.532	1.532	1.532	24393	62.79e-6	infeasible	100.0	100.0	100.0
	Bernstein	96.12	195.6e-3	96.31	01:36	4157	47.05e-6	infeasible	12.77	6288.6	17.04
	MinVariance	166.2	175.3e-3	166.4	02:46	4157	42.18e-6	infeasible	11.45	10866.2	17.04
	BSplines	102.4	201.3e-3	102.6	01:42	4157	48.43e-6	infeasible	13.14	6698.4	17.04
	MinNorm	159.9	176.0e-3	160.0	02:40	4157	42.33e-6	infeasible	11.49	10448.8	17.04
	MinVolume	158.0	187.5e-3	158.2	02:38	4157	45.10e-6	infeasible	12.24	10328.2	17.04
	ApproxMinVolume	155.2	194.9e-3	155.4	02:35	4157	46.89e-6	infeasible	12.73	10147.4	17.04
	Recursive	111.9	190.8e-3	112.1	01:52	4157	45.90e-6	infeasible	12.46	7319.8	17.04
0.01	Recursive2	127.9	192.5e-3	128.1	02:08	4157	46.31e-6	infeasible	12.57	8361.0	17.04
	Interval	32.90e-6	1.512	1.512	1.512	24393	61.99e-6	infeasible	100.0	100.0	100.0
	Bernstein	95.99	193.1e-3	96.19	01:36	4157	46.46e-6	infeasible	12.77	6361.4	17.04
	MinVariance	165.6	175.3e-3	165.8	02:45	4157	42.18e-6	infeasible	11.60	10964.1	17.04
	BSplines	102.4	201.8e-3	102.6	01:42	4157	48.55e-6	infeasible	13.35	6785.3	17.04
	MinNorm	159.1	177.8e-3	159.3	02:39	4157	42.76e-6	infeasible	11.76	10534.5	17.04
	MinVolume	157.8	189.9e-3	158.0	02:38	4157	45.68e-6	infeasible	12.56	10451.3	17.04
	ApproxMinVolume	154.5	191.2e-3	154.7	02:34	4157	46.00e-6	infeasible	12.65	10232.4	17.04
Recursive	111.2	191.4e-3	111.4	01:51	4157	46.04e-6	infeasible	12.66	7369.6	17.04	
	Recursive2	127.2	191.5e-3	127.4	02:07	4157	46.08e-6	infeasible	12.67	8424.1	17.04

Table 73: Bissection of problem 3D with problem: 12, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	35.05e-6	2173	2173	36:13	36386983	59.72e-6	386.24	100.0	100.0	100.0
	Bernstein	69.88	751.6	821.5	13:41	6324949	118.8e-6	385.26	34.59	37.80	17.38
	MinVariance	131.3	939.4	1070	17:50	7206457	130.4e-6	385.34	43.23	49.27	19.81
	BSplines	75.13	4610	4685	01:18:05	40254141	114.5e-6	386.51	212.1	215.6	110.6
	MinNorm	116.0	863.9	979.9	16:19	6803387	127.0e-6	385.30	39.75	45.09	18.70
	MinVolume	122.0	1051	1173	19:33	8284391	127.0e-6	385.41	48.40	54.01	22.77
	ApproxMinVolume	113.7	1041	1155	19:15	8324463	125.1e-6	385.41	47.92	53.16	22.88
	Recursive	81.51	768.0	849.5	14:09	6366677	120.6e-6	385.26	35.34	39.09	17.50
0.01	Recursive2	94.84	789.5	884.3	14:44	6343087	124.5e-6	385.26	36.33	40.69	17.43
	Interval	30.99e-6	56.81	56.814	908209	62.56e-6	414.99	100.0	100.0	100.0	
	Bernstein	96.23	25.90	122.1	02:02	201961	128.3e-6	404.04	45.59	215.0	22.24
	MinVariance	167.2	30.31	197.5	03:17	220827	137.3e-6	405.30	53.36	347.6	24.31
	BSplines	101.7	60.92	162.7	02:42	469759	129.7e-6	425.62	107.2	286.3	51.72
	MinNorm	161.0	29.29	190.3	03:10	212063	138.1e-6	404.71	51.56	334.9	23.35
	MinVolume	158.1	33.04	191.1	03:11	244065	135.4e-6	406.55	58.15	336.4	26.87
	ApproxMinVolume	155.0	33.35	188.4	03:08	244805	136.2e-6	406.58	58.70	331.5	26.95
Recursive	110.9	26.70	137.6	02:17	207469	128.7e-6	404.04	47.00	242.3	22.84	
	Recursive2	127.1	27.15	154.2	02:34	207231	131.0e-6	404.04	47.79	271.4	22.82

Table 74: Bissection of problem 3D with problem: 13, type: MaxFirst

precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	criteria	comput_time (%)	total_time (%)	nb_iter (%)
0.001	Interval	36.00e-6	952.0e-3	952.0e-3	0.952	15151	62.83e-6	infeasible	100.0	100.0	100.0
	Bernstein	70.20	204.0e-3	70.40	01:10	2207	92.44e-6	infeasible	21.43	7395.1	14.57
	MinVariance	133.3	213.7e-3	133.5	02:13	2207	96.84e-6	infeasible	22.45	14023.1	14.57
	BSplines	75.89	239.2e-3	76.13	01:16	2637	90.72e-6	infeasible	25.13	7996.8	17.40
	MinNorm	147.6	214.4e-3	147.9	02:27	2205	97.25e-6	infeasible	22.53	15530.8	14.55
	MinVolume	145.2	218.6e-3	145.4	02:25	2257	96.84e-6	infeasible	22.96	15275.6	14.90
	ApproxMinVolume	141.3	218.1e-3	141.5	02:21	2257	96.64e-6	infeasible	22.91	14867.8	14.90
	Recursive	92.43	187.8e-3	92.61	01:32	2285	82.20e-6	infeasible	19.73	9728.4	15.08
0.01	Recursive2	104.1	191.9e-3	104.3	01:44	2309	83.10e-6	infeasible	20.16	10952.7	15.24
	Interval	56.98e-6	943.5e-3	943.6e-3	0.944	15151	62.27e-6	infeasible	100.0	100.0	100.0
	Bernstein	95.47	205.0e-3	95.68	01:35	2207	92.89e-6	infeasible	21.73	10139.9	14.57
	MinVariance	165.5	192.0e-3	165.7	02:45	2207	87.01e-6	infeasible	20.35	17564.0	14.57
	BSplines	102.1	245.6e-3	102.4	01:42	2637	93.12e-6	infeasible	26.03	10848.4	17.40
	MinNorm	159.0	195.4e-3	159.2	02:39	2205	88.62e-6	infeasible	20.71	16875.9	14.55
	MinVolume	157.1	204.6e-3	157.3	02:37	2257	90.67e-6	infeasible	21.69	16667.5	14.90
	ApproxMinVolume	154.7	211.3e-3	154.9	02:34	2257	93.62e-6	infeasible	22.40	16413.2	14.90
.../model/kuka_lwr.xml	Recursive	110.9	213.3e-3	111.1	01:51	2285	93.34e-6	infeasible	22.61	11778.3	15.08
	Recursive2	127.1	215.7e-3	127.3	02:07	2309	93.42e-6	infeasible	22.86	13494.4	15.24

Table 75: Bissection of problem 3D with problem: 14, type: MaxFirst

robot	precision	solver	prep_time	comput_time	total_time	(D-H:M:S.ms)	nb_iter	time_per_iter	comput_time (%)	total_time (%)	nb_iter (%)
.../model/kuka_lwr.xml	0.001	Interval	39.00e-6	598958	598958	6-22:22:38	6676040964	89.00e-6	100.0	100.0	100.0
		Bernstein	378.3	643161	643444	7-10:44:04	1080785179	111.0e-6	6.361	7.065	6.837
		MinVariance	414.4	733199	733508	8-11:45:08	12258260822	112.0e-6	6.781	7.546	7.339
		BSplines	375.8	283355	283609	3-06:46:49	4568299416	126.0e-6	16.28	17.22	21.61
		MinNorm	410.4	694917	695224	8-01:07:04	11577934452	110.0e-6	6.504	7.263	7.106
		MinVolume	396.9	794907	795201	9-04:53:21	13774006396	110.0e-6	6.993	7.691	7.847
		ApproxMinVolume	382.0	805262	805544	9-07:45:44	13813523254	110.0e-6	7.004	7.683	7.860
		Recursive	373.3	641137	641414	7-10:10:14	10821224833	110.0e-6	6.239	6.913	6.837
		Recursive2	377.2	648204	648486	7-12:08:06	10813911461	110.0e-6	6.341	7.025	6.846
	0.01	Interval	32.00e-6	332676	332676	3-20:24:36	3624925264	91.00e-6	100.0	100.0	100.0
		Bernstein	346.8	22166	22513	06:15:13	242652648	126.0e-6	9.706	10.42	7.982
		MinVariance	384.1	24294	24678	06:51:18	264227566	127.0e-6	10.41	11.21	8.475
		BSplines	363.4	49644	49908	13:51:48	619888324	122.0e-6	16.82	17.57	16.45
		MinNorm	388.0	23320	23708	06:35:08	254207507	126.0e-6	10.08	10.90	8.246
		MinVolume	375.2	25425	25800	07:10:00	285991552	125.0e-6	10.65	11.43	8.969
		ApproxMinVolume	373.8	25545	25919	07:11:59	286566441	126.0e-6	10.70	11.50	8.982
		Recursive	341.3	22390	22732	06:18:52	244304039	126.0e-6	9.869	10.60	8.001
.../model/kuka_lwr_4dof.xml	0.001	Interval	38.00e-6	642.5	642.5	10:42	11047784	62.00e-6	100.0	100.0	100.0
		Bernstein	38.50	212.5	297.6	04:57	2079581	61.00e-6	18.94	2995.8	20.74
		MinVariance	68.98	268.7	422.2	07:02	2379840	68.00e-6	22.55	5349.6	22.32
		BSplines	41.17	1075	1167	19:27	10671601	60.00e-6	60.90	3238.0	57.08
		MinNorm	66.53	250.1	400.1	06:40	2243746	64.00e-6	20.62	5262.3	21.59
		MinVolume	64.72	297.5	443.0	07:23	2703713	63.00e-6	23.17	5135.8	24.03
		ApproxMinVolume	63.48	298.2	438.4	07:18	2714059	64.00e-6	23.35	5055.6	24.08
		Recursive	45.54	217.5	318.2	05:18	2087414	62.00e-6	19.24	3590.0	20.86
	0.01	Recursive2	52.07	222.0	335.6	05:35	2087932	62.00e-6	9.935	10.64	8.049
		Interval	38.00e-6	19.14	19.14	19:138	306036	63.00e-6	100.0	100.0	100.0
		Bernstein	41.20	6.705	94.26	01:34	72424	67.00e-6	21.81	3335.1	21.01
		MinVariance	72.95	7.779	168.4	02:48	78200	69.00e-6	23.82	6160.4	22.02
		BSplines	43.92	15.29	112.4	01:52	152933	69.00e-6	40.28	3780.0	35.14
		MinNorm	70.18	7.492	164.3	02:44	75509	70.00e-6	23.27	6046.8	21.54
		MinVolume	68.33	8.484	161.3	02:41	84924	70.00e-6	25.57	5953.2	23.19
		ApproxMinVolume	67.21	8.511	158.2	02:38	85144	70.00e-6	25.75	5842.8	23.23
		Recursive	48.00	6.977	112.7	01:52	73986	68.00e-6	22.48	4125.0	21.35
		Recursive2	54.91	7.215	129.0	02:09	74118	69.00e-6	23.04	4744.4	21.44

Table 76: Average of Bissection for 3D problems