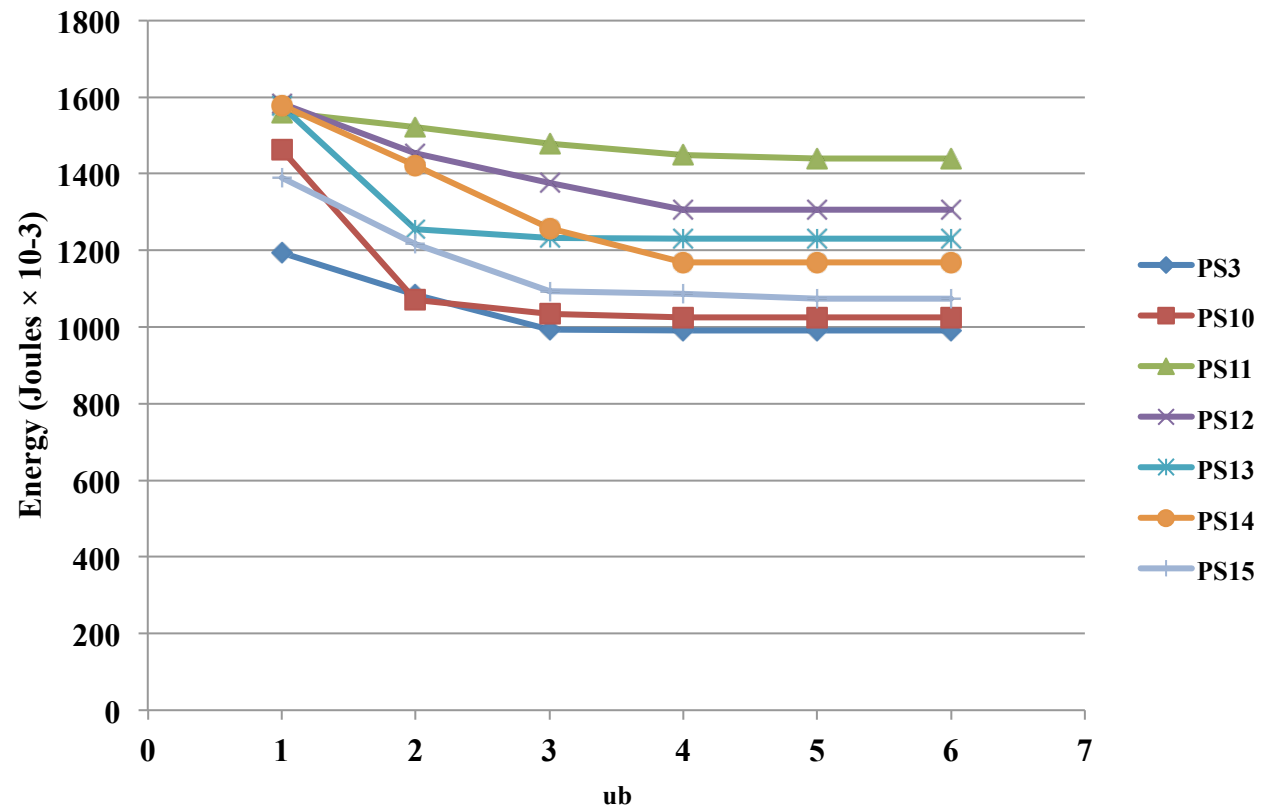
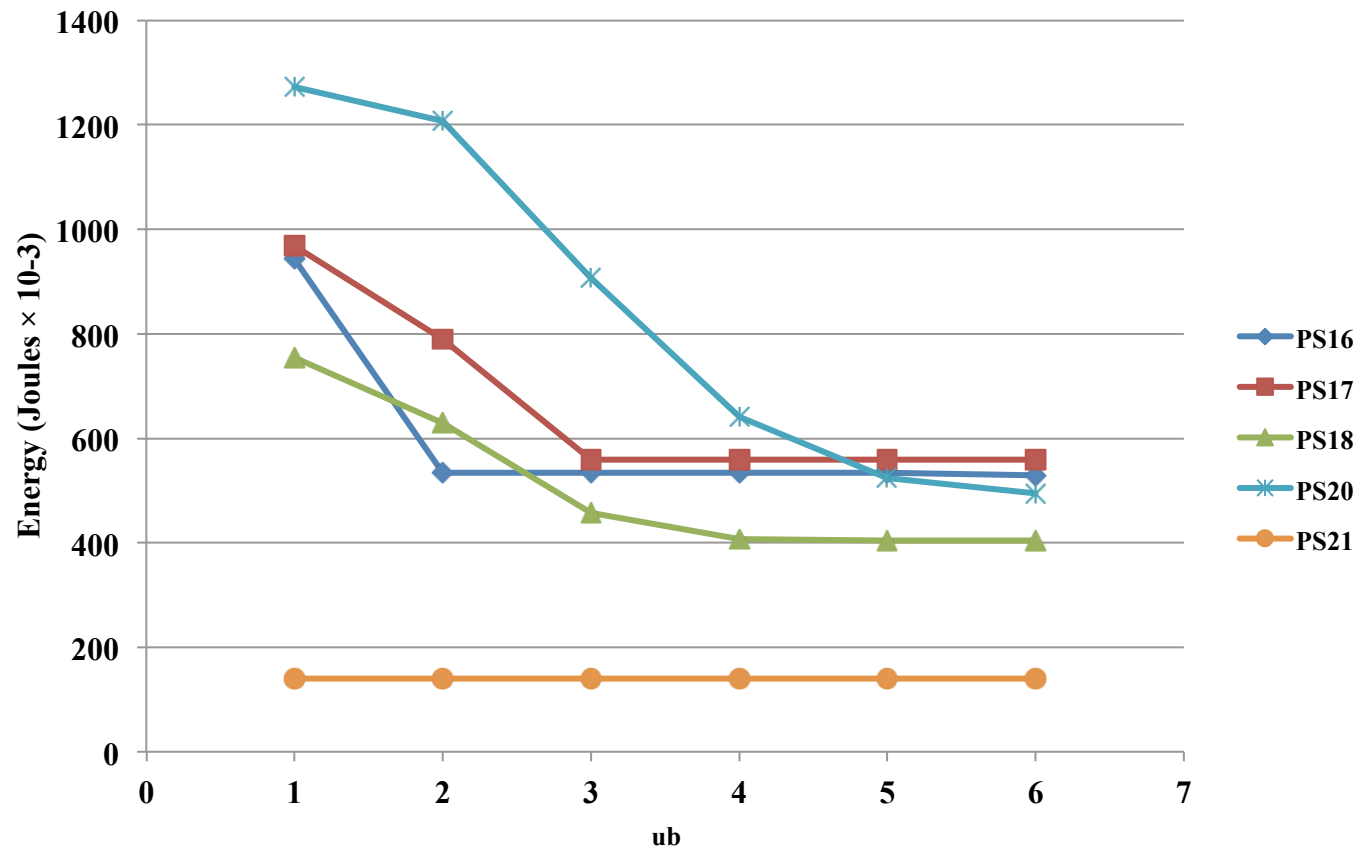


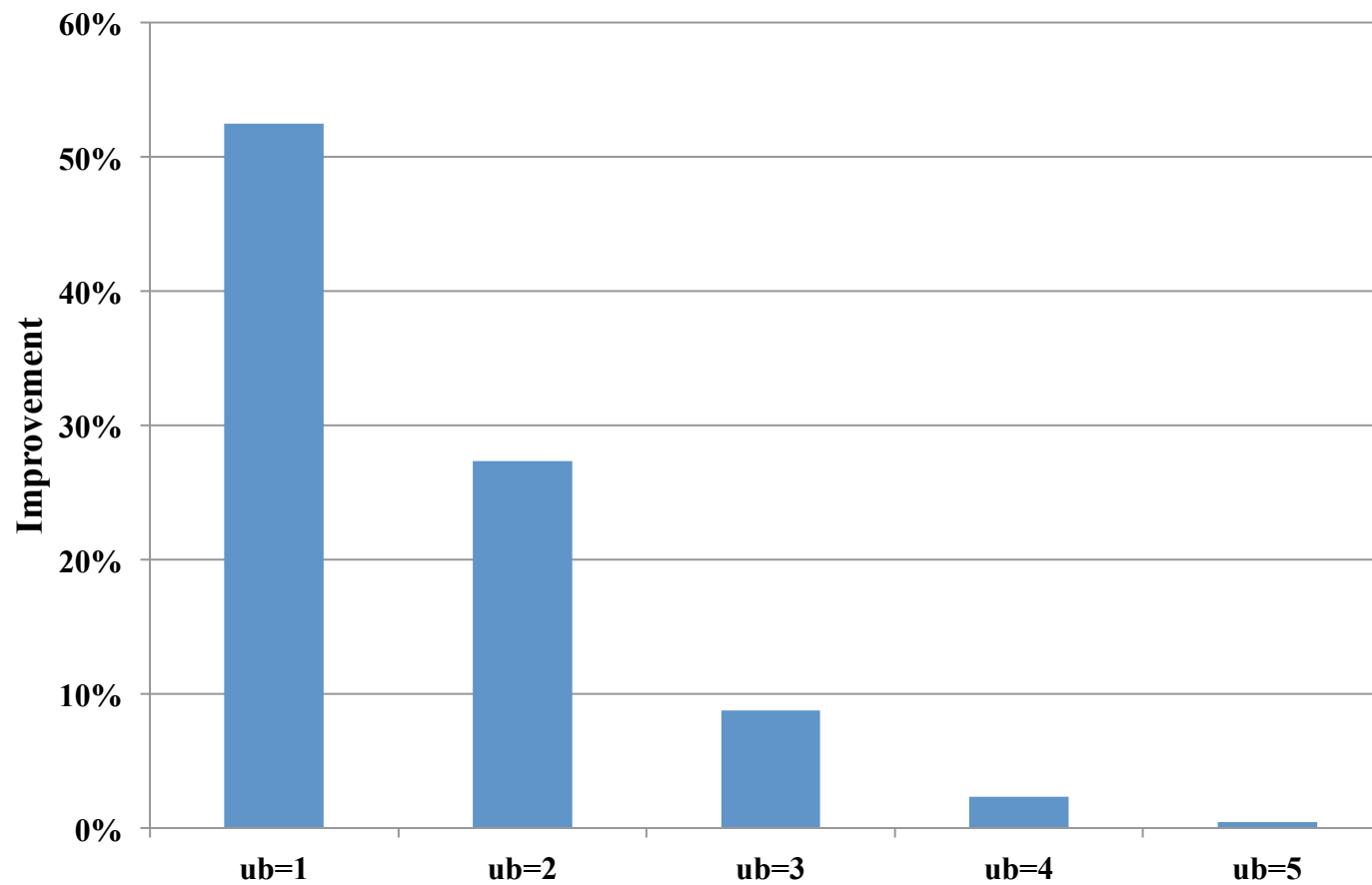
Impact of  $ub$  on problem sets PS1 to PS6



Impact of  $ub$  on problem sets PS10 to PS15. PS7 to PS9 were infeasible (unschedulable).



Impact of  $ub$  on problem sets PS16 to PS21. PS19 was infeasible (unschedulable).

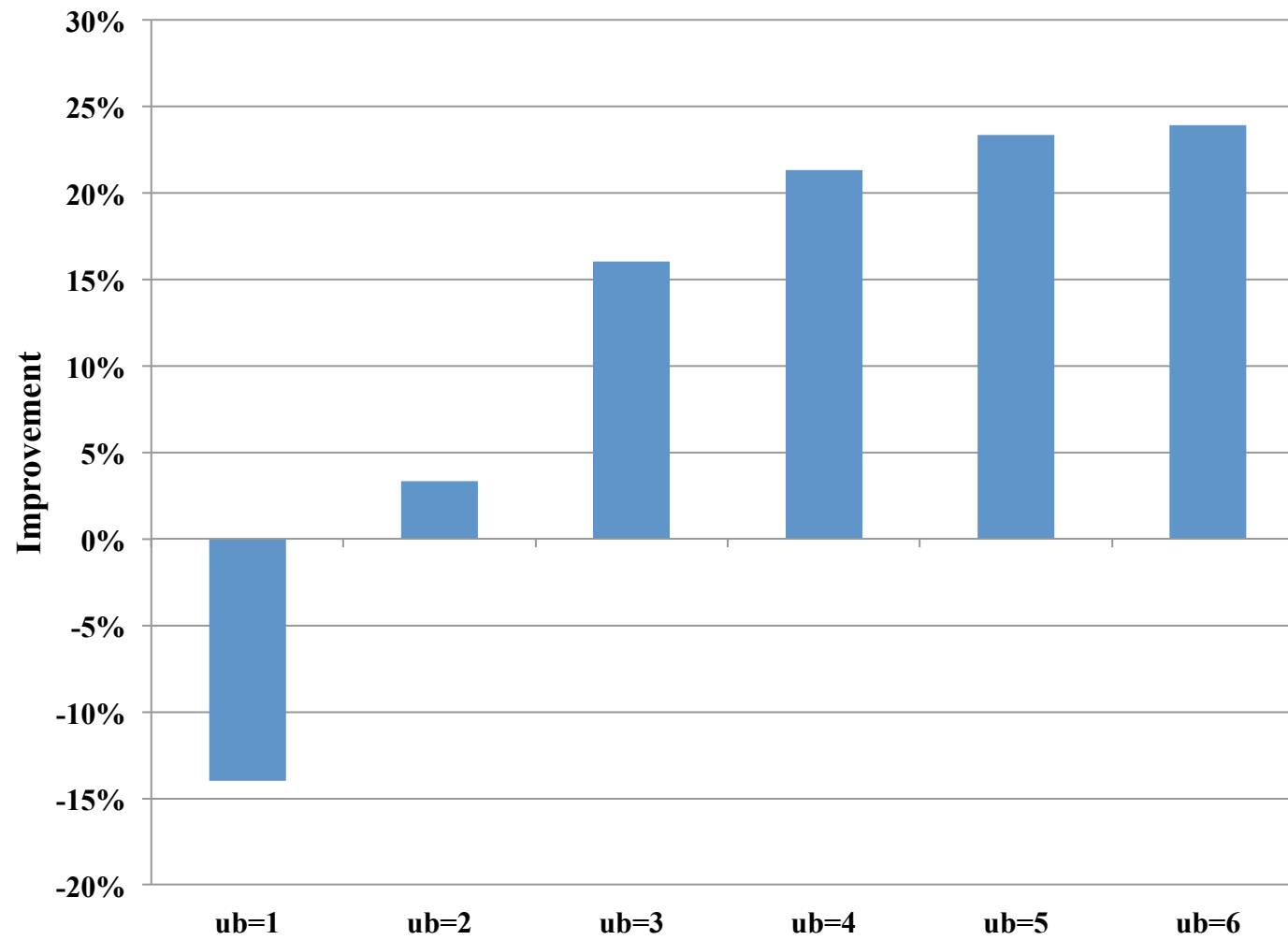


Improvement obtained by  $ub = 6$  over  $ub = 1, 2, 3, 4$ , and  $5$ .

	<b>ub = 1</b>	<b>ub = 2</b>	<b>ub = 3</b>	<b>ub = 4</b>	<b>ub = 5</b>	<b>ub = 6</b>
<b>PS1</b>	0,45	1,33	4,42	21	803	16454
<b>PS2</b>	0,81	1,91	13	122	628	2928
<b>PS3</b>	1,91	3,1	10	75	568	1607
<b>PS4</b>	1,18	2,35	19	137	595	1569
<b>PS5</b>	0,3	0,5	2,12	14	56	184
<b>PS6</b>	0,15	0,17	0,26	0,38	1,3	7
<b>PS10</b>	1	3,5	31	149	638	2261
<b>PS11</b>	0,13	0,44	1,46	4,20	9	9
<b>PS12</b>	0,12	0,64	2,3	7,45	14	24
<b>PS13</b>	0,19	2	10	34	175	2426
<b>PS14</b>	0,29	0,62	5,8	45	941	4305
<b>PS15</b>	0,69	1,32	3,34	16	182	2781
<b>PS16</b>	4.9	8.5	19	45	147	1037
<b>PS17</b>	5	6	13	39	154	523
<b>PS18</b>	3,3	4,39	8,2	19,5	77	470
<b>PS19</b>	19,5	30,9	188	801	2296	5921
<b>PS20</b>	3,5	3,7	6.45	17,2	60,5	220
<b>PS21</b>	0,93	1,1	2,5	8,8	28	70

**Execution  
Times (sec)**

Running time increases with larger *ub*



Average improvement obtained by our heuristic  
over the base heuristic.