**Lab Assignment 1 – MAPF**

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**EPEA\*:**

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| **Problem**  **description** | **Runtime (ms)** | **Cost** | **Generated/Expanded**  **Nodes** | **Solution Path** | **Maximal Group**  **Size (CBS only)** |
| 8\*8 grid with 3 agents, 0% obstacles | 47.4765 | 22 | 24/10 | 10 |  |
| 8\*8 grid with 5 agents and 5% obstacles | 33.8753 | 23 | 24/11 | 11 |  |
| 8\*8 grid with 10 agents and 5% obstacles | 221.519 | 50 | 1089/502 | 404 |  |
| 8\*8 grid with 15 agents and 5% obstacles. | 22213.8662 | 82 | 28627/30341 | 28564 |  |
| dragonage map no. den502d with 5 agents | 46.7544 | 660 | 1074/181 | 181 |  |
| dragonage map no. den502d with 10 agents | 184.87.51 | 837 | 5161/235 | 235 |  |

**CBS:**

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| **Problem**  **description** | **Runtime (ms)** | **Cost** | **Generated/Expanded**  **Nodes** | **Solution Path** | **Maximal Group**  **Size (CBS only)** |
| 8\*8 grid with 3 agents, 0% obstacles | 84.4815 | 14 | 1/0 | 0 | 1 |
| 8\*8 grid with 5 agents and 5% obstacles | 30.4474 | 19 | 1/0 | 0 | 1 |
| 8\*8 grid with 10 agents and 5% obstacles | 114.0105 | 60 | 12/8 | 1 | 1 |
| 8\*8 grid with 15 agents and 5% obstacles. | 155.9952 | 68 | 89/56 | 4 | 1 |
| dragonage map no. den502d with 5 agents | 64.9936 | 350 | 1/0 | 0 | 1 |
| dragonage map no. den502d with 10 agents | 39.6677 | 700 | 1/0 | 0 | 1 |