

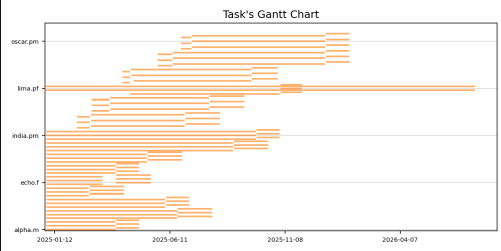
Yumbo. Scheduling, Planning and Resource Allocation

Zbigniew Romanowski, Paweł Koczyk

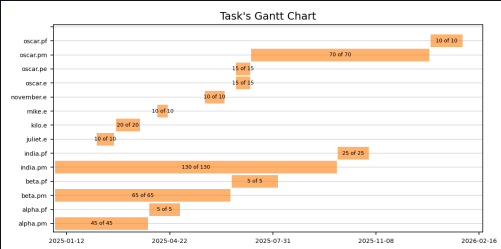
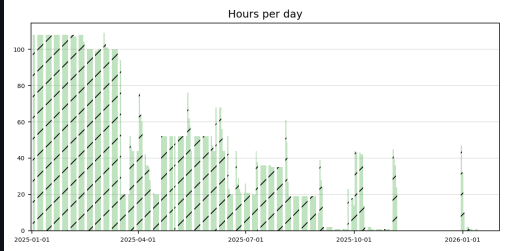
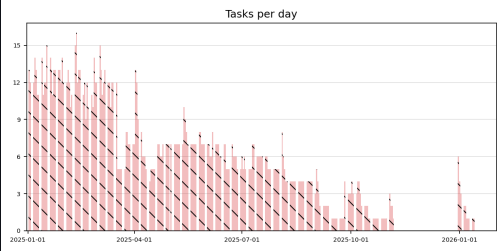
Source code, documentation and sample data report files are on [GitHub](#) or [public repository](#)

15 January 2025, 21:55:57 PM

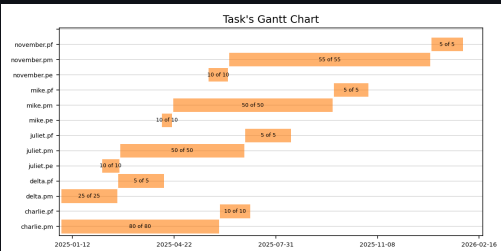
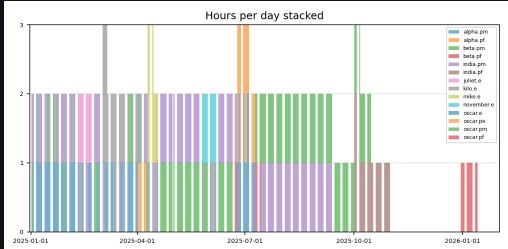
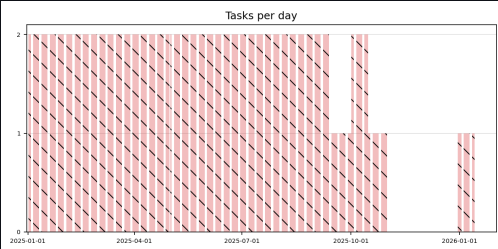
Experts overview



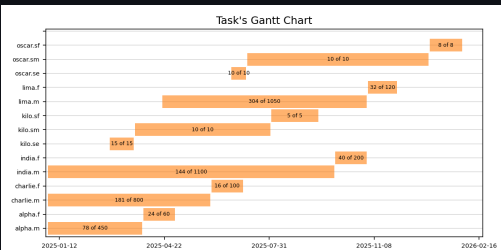
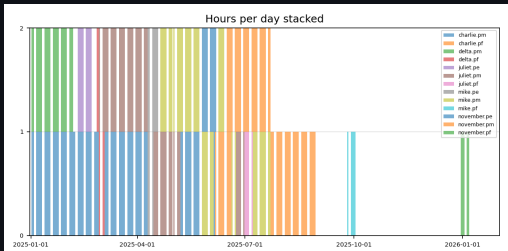
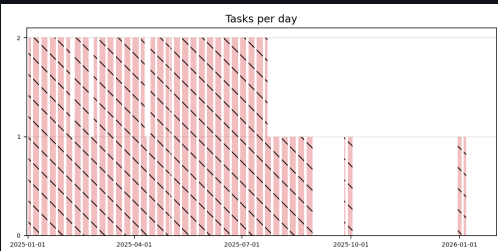
PM, Daniel the 1st unit



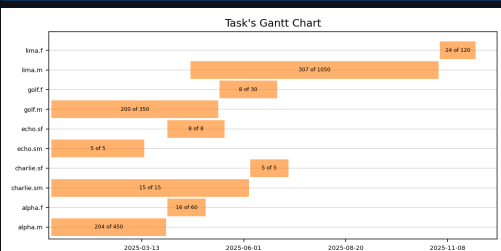
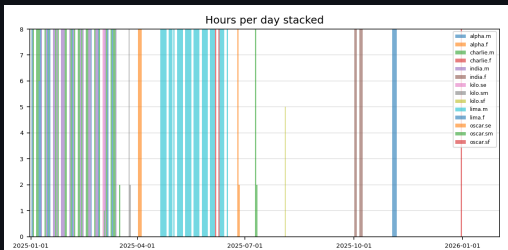
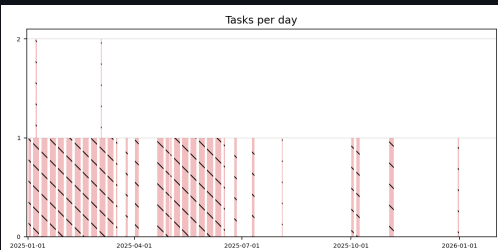
PM, Angel the 1st unit



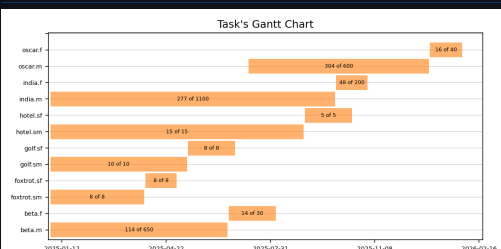
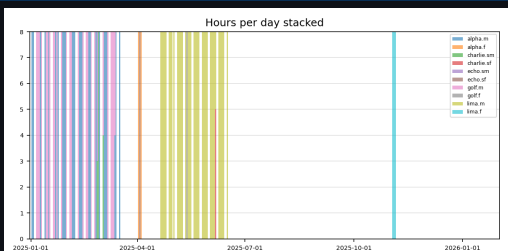
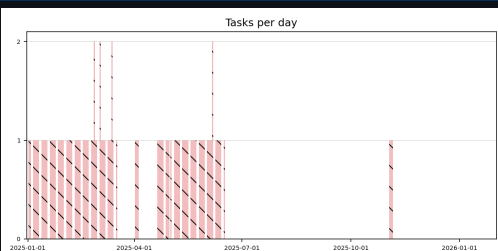
DEV, Paul the 1st unit



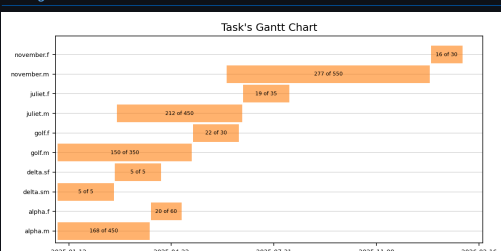
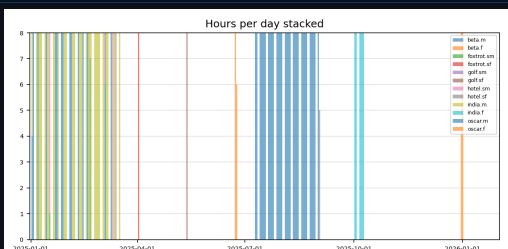
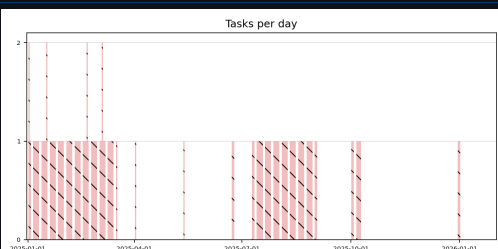
SA, Adrian the 1st unit



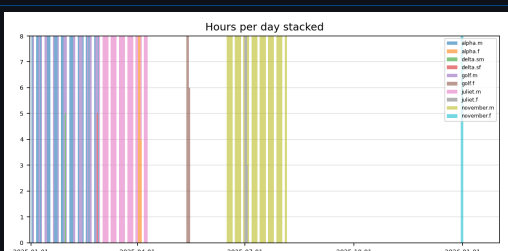
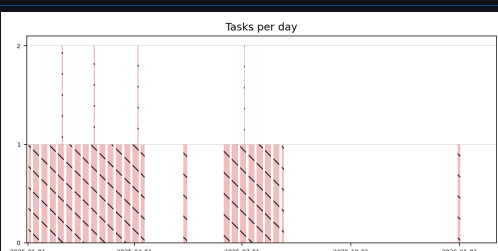
SA, Robert the 1st unit

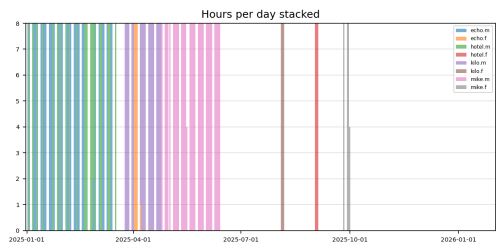
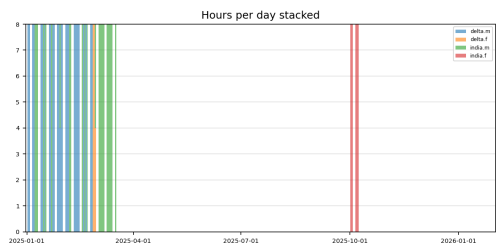
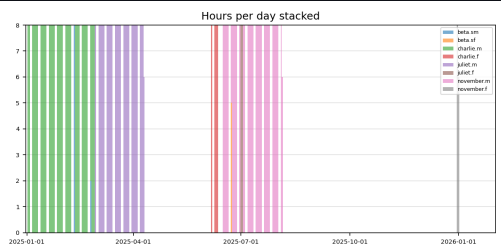
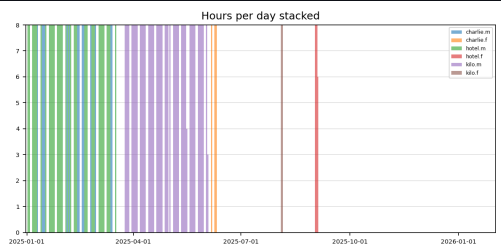
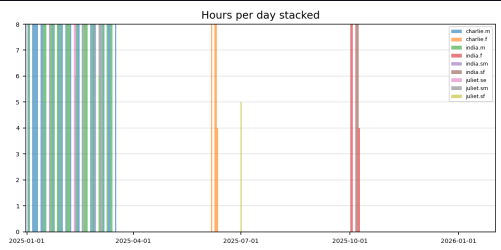
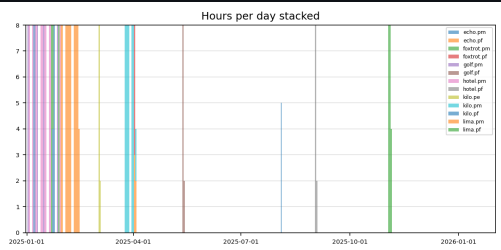
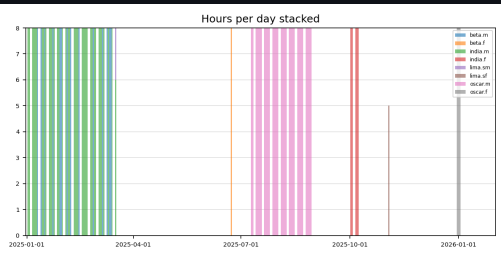
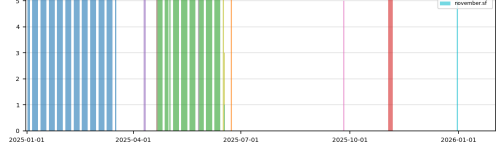


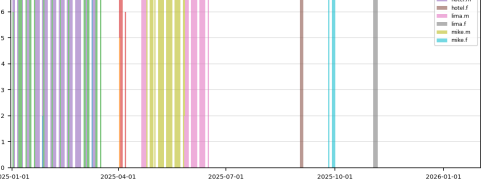
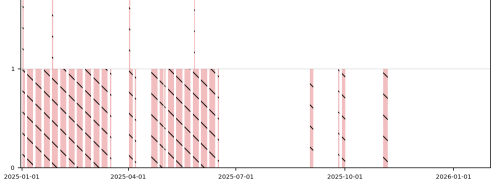
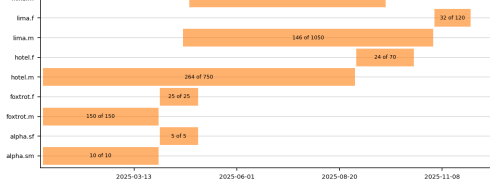
DEV, Hugo the 1st unit



DEV, Frances the 1st unit







Solver output at 05 January 2025, 21:57:45 PM

```
HIGGS 1.7.1: tech-outlet - 1
Running HIGGS 1.7.1 (git hash: dcf8123): Copyright (c) 2024 HIGGS under MIT Licence terms
Coefficient ranges:
  Matrix [[a+00, b+00]]
  Cons  [[a+00, b+00]]
  Bound  [[a+00, b+00]]
  RHS  [[a+00, b+00]]
Pre-solving model
158330 rows, 151372 cols, 400134 nonzeros, 0s
10032 rows, 100000 cols, 10000 nonzeros, 0s
10001 rows, 10000 cols, 10000 nonzeros, 0s
10004 rows, 10000 cols, 10000 nonzeros, 0s
Solving MIP model with:
10000 rows
10000 cols, 10000 binary, 10000 integer, 0 implied int., 0 continuous
10000 nonzeros
Nodes | BSB Tree | Objective Bounds | Gap | Dynamic Constraints | Work
Proc. Solved | Status | Expl. | BestBound | BestObj | Gap | Cons | Ship Conf. | LP Sols | Time
0 | 0 | 0 | 0.000 | 140.20021 | Inf | 0 | 0 | 0 | 0 | 0.0s
0 | 0 | 0 | 0.000 | 20007.002074 | 20007.002074 | 0.00% | 0 | 0 | 0 | 1002 | 0.0s
Solving report
Status: Optimal
Primal bound: 20007.002074
Dual bound: 20007.002074
Gap: 0% (tolerance: 0.00%)
Feasible: 20007.002074 (objective)
0 (bound viol.)
0 (int. viol.)
0 (row viol.)
0.00 (total)
0.00 (presolved)
0.00 (postsolve)
Nodes: 1
LP iterations: 1000 (total)
0 (strong br.)
0 (heuristic)
0 (heuristic)
HIGGS 1.7.1: optimal solution: objective 20007.00207
10000 iterations
0 branching nodes
```