

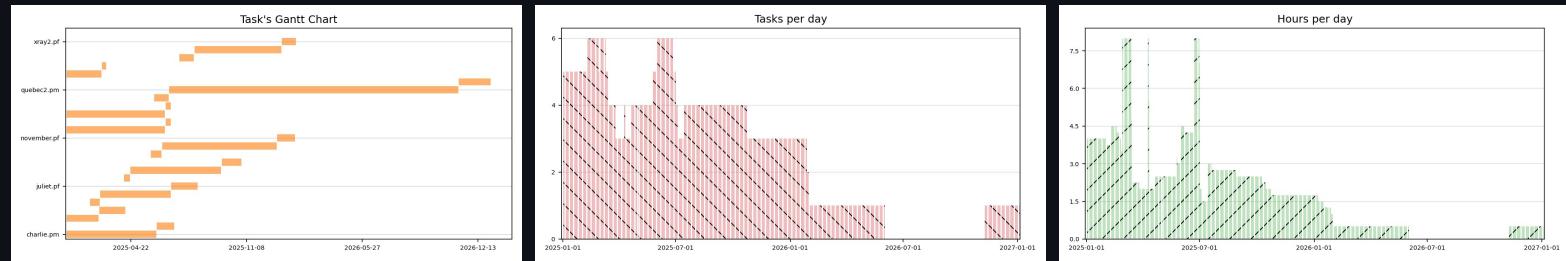
# Yumbo. Scheduling, Planning and Resource Allocation

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Source code, documentation and sample Excel input files can be found on [Yumbo's GitHub repository](#).

28 January 2025, 13:46:00 PM

## Experts overview



## PM.Angel the 1st unit





## Solver output at 28 January 2025, 13:42:22 PM

```

HiGHS 1.8.1: tech:outlev = 1
Running HiGHS 1.8.1 (git hash: 4a7f24a): Copyright (c) 2024 HiGHS under MIT licence terms
Coefficient ranges:
  Matrix [1e+00, 3e+01]
  Cost  [1e+00, 1e+00]
  Bound [1e+00, 2e+02]
  RHS   [2e+01, 7e+02]
Presolving model
1243 rows, 2049 cols, 4598 nonzeros  0s
1073 rows, 1964 cols, 4243 nonzeros  0s

Solving MIP model with:
  1073 rows
  1964 cols (910 binary, 1054 integer, 0 implied int., 0 continuous)
  4243 nonzeros
MIP-Timing:      0.019 - starting analytic centre calculation

Src: B => Branching; C => Central rounding; F => Feasibility pump; H => Heuristic; L => Sub-MIP;
P => Empty MIP; R => Randomized rounding; S => Solve LP; T => Evaluate node; U => Unbounded;
z => Trivial zero; l => Trivial lower; u => Trivial upper; p => Trivial point

      Nodes    |     B&B Tree    |          Objective Bounds           |       Dynamic Constraints    |        Work
Src Proc InQueue | Leaves Expl. | BestBound  BestSol   Gap | Cuts  InLp Confl. | LpIters  Time
      0      0      0  0.00%  7398.610836  inf  inf  0  0  0  0  0.0s
R      0      0      0  0.00% 12509.011159 12509.011159 0.00%  0  0  0  313  0.0s
      1      0      1 100.00% 12509.011159 12509.011159 0.00%  0  0  0  324  0.0s

Solving report
  Status      Optimal
  Primal bound 12509.011159
  Dual bound 12509.011159
  Gap 0% (tolerance: 0.01%)
  P-D integral 1.04244182079e-18
  Solution status feasible
    12509.011159 (objective)
    0 (bound viol.)
    0 (int. viol.)
    0 (row viol.)
  Timing      0.04 (total)
              0.00 (presolve)
              0.00 (solve)
              0.00 (postsolve)
  Max sub-MIP depth 0
  Nodes      1
  Repair LPs 0 (0 feasible; 0 iterations)
  LP iterations 324 (total)
                0 (strong br.)
                0 (separation)
                0 (heuristics)

HiGHS 1.8.1: optimal solution; objective 12509.01116
324 simplex iterations
1 branching nodes
absmipgap=1.81899e-12, relmipgap=2.90829e-16

```

Elapsed time for chart creation

