Load a Excel data file

Excel file required in format 'xlsx'

Drag and drop file here

Limit 200MB per file

Browse files

06-long-term-planning-SA.xlsx
24.6KB

See the Yumbo GitHub repository for sample Excel input files.

Today: 2024-11-20

Hours per day: 8

Customise report

Expert	sel?	Gantt?	Table?	Workload?	Commitment?
Bożydar	☑		☐	☐	☑

Tasks definition

Name	Start day	End day	Work	Days	Workdays	Avg
p2.e	2024-11-21	2024-12-04	40	14	10	4.00
p2.m	2024-12-05	2025-04-02	85	119	84	1.01
p2.f	2025-04-03	2025-04-30	40	28	20	2.00
p3.e	2024-12-01	2024-12-13	20	13	10	2.00
p3.m	2024-12-14	2025-05-30	105	168	119	0.88
p3.f	2025-05-31	2025-06-27	40	28	20	2.00
p4.e	2024-12-16	2025-01-03	45	19	14	3.21
p4.m	2025-01-04	2025-06-20	105	168	120	0.88
p4.f	2025-06-21	2025-07-18	40	28	20	2.00
p5.e	2024-12-31	2025-01-13	40	14	10	4.00

Experts names

Name	Comment
Bożydar	Solution Architect role

Links

Expert	Task
Bożydar	p2.e
Bożydar	p2.m
Bożydar	p2.f
Bożydar	p3.e
Bożydar	p3.m
Bożydar	p3.f
Bożydar	p4.e
Bożydar	p4.m
Bożydar	p4.f
Bożydar	p5.e

Bounds xbday

Expert	Task	Start day	End day	Lower	Upper
Bożydar	p2.e	2024-11-21	2024-12-04	3	5
Bożydar	p2.m	2024-12-05	2025-04-02	0	2
Bożydar	p2.f	2025-04-03	2025-04-30	2	2
Bożydar	p3.e	2024-12-01	2024-12-13	1	3
Bożydar	p3.m	2024-12-14	2025-05-30	0	1
Bożydar	p3.f	2025-05-31	2025-06-27	2	2
Bożydar	p4.e	2024-12-18	2025-01-03	3	4
Bożydar	p4.m	2025-01-04	2025-06-20	0	1
Bożydar	p4.f	2025-06-21	2025-07-18	2	2
Bożydar	p5.e	2024-12-31	2025-01-13	4	4

Bounds xbsum

Expert	Task	Start day	End day	Lower	Upper

empty

Bounds ubday

Expert	Start day	End day	Lower	Upper

empty

Bounds ubsum

Expert	Task	Start day	End day	Lower	Upper

empty

Expert bounds and preferences

Expert	Start day	End day	Lower	Upper

empty

Invoicing periods

Name	Start day	End day	Days	Workdays
25.Jan	2024-12-11	2025-01-15	36	25
25.Feb	2025-01-16	2025-02-13	29	21
25.Mar	2025-02-14	2025-03-16	31	21
25.Apr	2025-03-17	2025-04-14	29	21
25.May	2025-04-15	2025-05-18	34	24

Invoicing periods bounds

Expert	Period	Lower	Upper

empty

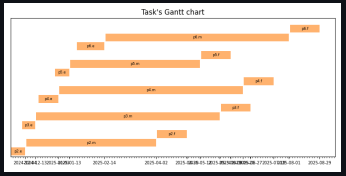
Yumbo. Scheduling, Planning and Resource Allocation

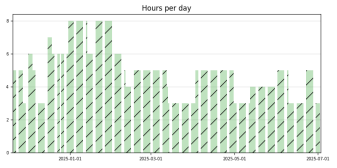
Zbigniew Romanowski, Paweł Koczyk

Source code, documentation and sample Excel input files can be found on Yumbo's GitHub repository.

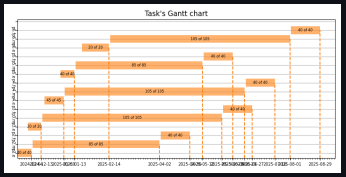
12 January 2025, 17:55:39 PM

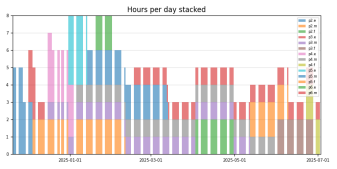
All experts overview

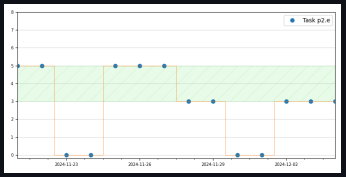


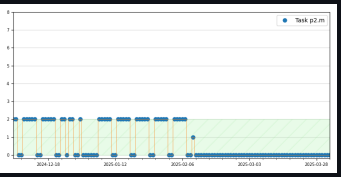


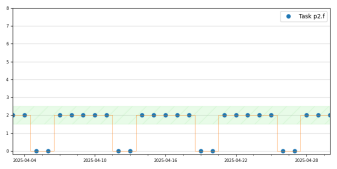
Bożydar Solution Architect role

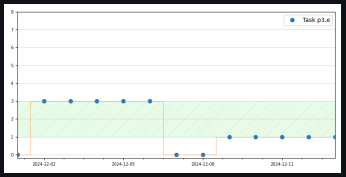


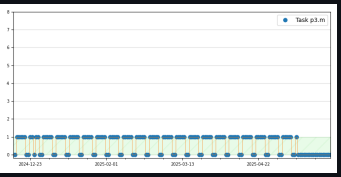


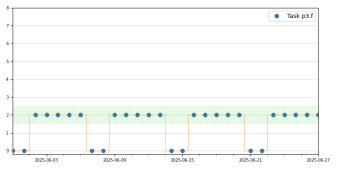


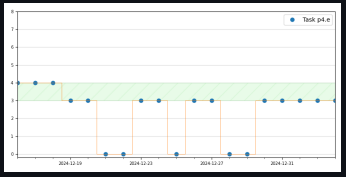


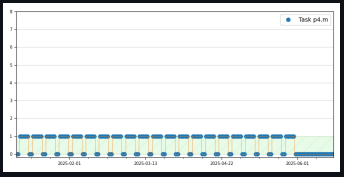


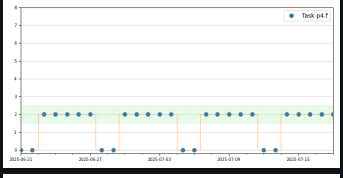


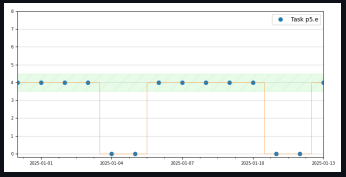


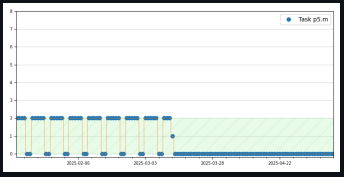


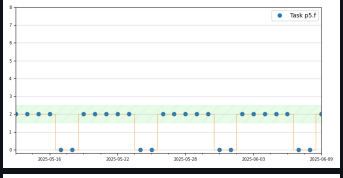


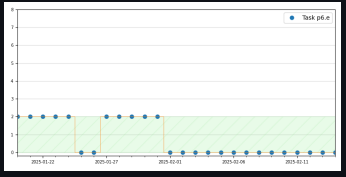


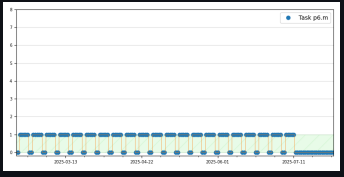


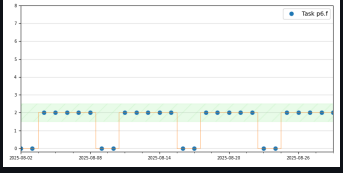












Solver output at 03 January 2025, 17:55:34 PM

```
SCIP 9.0.1:   tech:outlev=native = 5
LP Solver <Soplex 7.0.1>: barrier convergence tolerance cannot be set -- tolerance of SCIP and LP solver may differ
LP Solver <Soplex 7.0.1>: fastmip setting not available -- SCIP parameter has no effect
LP Solver <Soplex 7.0.1>: number of threads settings not available -- SCIP parameter has no effect
 transformed problem has 1395 variables (591 bin, 218 int, 0 impl, 15 cont) and 1115 constraints
    1115 constraints of type <linear>

original problem has 3372 active (0.263415%) nonzeros and 3372 (0.263415%) check nonzeros

presolving:
(round 1, fast)       394 del vars, 735 del conss, 0 add conss, 3 chg bounds, 0 chg sides, 185 chg coeffs, 0 upgd conss, 0 impls, 4 clqs
(round 2, exhaustive) 394 del vars, 735 del conss, 0 add conss, 3 chg bounds, 0 chg sides, 185 chg coeffs, 189 upgd conss, 0 impls, 4 clqs
(round 3, exhaustive) 394 del vars, 735 del conss, 0 add conss, 3 chg bounds, 0 chg sides, 185 chg coeffs, 374 upgd conss, 185 impls, 4 clqs
   (0.0s) probing: 51/562 (9.1%) - 0 fixings, 0 aggregations, 0 implications, 0 bound changes
   (0.0s) probing aborted: 50/50 successive totally useless probings
   (0.0s) symmetry computation started: requiring (bin +, int +, cont +), (fixed: bin -, int -, cont -)
   (0.0s) symmetry computation finished: 3 generators found (max: 1500, log10 of symmetry group size: 0.0) (symcode time: 0.00)
dynamic symmetry handling statistics:
   orbitopal reduction:        no components
   orbital reduction:          no components
   lexicographic reduction:    1 permutations with support sizes 240
handled 1 out of 1 symmetry components
cons components found 7 undirected components at node 1, depth 0 (0)
clique table cleanup detected 9 bound changes

presolved problem has 549 active (1.19688%) nonzeros and 549 (1.19688%) check nonzeros

presolving (4 rounds: 4 fast, 3 medium, 3 exhaustive):
 392 deleted vars, 353 deleted constraints, 0 added constraints, 3 tightened bounds, 0 added holes, 0 changed sides, 185 changed coefficients
 376 implications, 4 cliques
presolved problem has 207 variables (217 bin, 89 int, 0 impl, 0 cont) and 167 constraints
    162 constraints of type <varbound>
      4 constraints of type <setppc>
      1 constraints of type <linear>
Presolving Time: 0.02

 time | node  | left  |  LP iter|LP it|n|mem|heur|mdpt |vars |cons |rows |cuts |sepa|confs|strbr|  dualbound   |   primalbound  |  gap   | compl.
p 0.0s|     1 |     0 |     1 |     1 |  -  |  locks|   0 | 207 | 167 | 167 |   0 |   0 |   0 |   0 | 1.000125e+03 | 2.561604e+03 | 47.36% | unknown
  5.0s|     1 |     0 |    53 |    53 |  -  |   14M |   0 | 207 | 167 | 167 |   0 |   0 |   0 |   0 | 2.478936e+03 | 2.561604e+03 |  3.33% | unknown
r 0.0s|     1 |     0 |    53 |    53 |  -  |randrou|   0 | 207 | 167 | 167 |   0 |   0 |   0 |   0 | 2.478936e+03 | 2.478936e+03 |  0.00% | unknown
  5.0s|     1 |     0 |    53 |    53 |  -  |   14M |   0 | 207 | 167 | 167 |   0 |   0 |   0 |   0 | 2.478936e+03 | 2.478936e+03 |  0.00% | unknown

SCIP Status        : problem is solved [optimal solution found]
Solving Time (sec) : 0.02
Solving Nodes      : 1
Primal Bound       : +2.47893626848434e+03 (2 solutions)
Dual Bound         : +2.47893626848434e+03
Gap                : 0.00 %
WARNING: No dual information available when presolving was performed.
SCIP 9.0.1: optimal solution; objective 2478.936268
52 simplex iterations
1 branching nodes
```