Yumbo. Scheduling, Planning and Resource Allocation

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PM.Daniel the 1st unit

Task's Gantt Chart · Tasks per day · Hours per day stacked

Task alpha.pm · Task alpha.pf · Task beta.pm

Task beta.pf · Task india.pm · Task india.pf

Task juliet.e · Task kilo.e · Task mike.e

Task november.e · Task oscar.e · Task oscar.pe

Task oscar.pm · Task oscar.pf

Solver output at 14 January 2025, 23:16:06 PM

the current varclass distribution includes 344 classes but only 8 are allowed for propagatePartialdec() of var class detector

POSTPROCESSING of decompositions. Added 0 new decomps.
Found 522 finished decompositions.
Measured running time per detector.
Detector consclass   worked on   515 finished decompositions and took a total time of   0.002
Detector neighborhoodmaster   worked on   1 finished decompositions and took a total time of   0.000
Detector connectedbase   worked on   521 finished decompositions and took a total time of   0.017
Detector varclass   worked on   5 finished decompositions and took a total time of   0.000
Detection Time: 0.05

A Dantzig-Wolfe reformulation is applied to solve the original problem.
Chosen structure has 76 blocks and 1 linking constraints.
This decomposition has a maxwhite score of 0.694566.
Matrix has 76 blocks, using 75 aggregated pricing problems.

```
  time | node  | left  |SLP iter|MLP iter|LP it/n| mem |mdpt |ovars|mvars|ocons|mcons|mcuts|  dualbound   | primalbound  |  deg  |  gap
p  0.1s|     1 |     0 |      0 |      0 |     - | 31M |   0 | 723 |   0 | 142 |   0 |   0 | 4.842553e+03 | 6.010002e+03 |   -- |  36.01%
*  0.1s|     1 |     0 |      0 |      0 |     - | 31M |   0 | 723 |   0 | 142 |   0 |   0 | 6.026403e+03 | 6.029403e+03 |   -- |   0.00%
   0.1s|     1 |     0 |      0 |      0 |     - | 31M |   0 | 723 |   0 | 142 |   0 |   0 | 6.026403e+03 | 6.029403e+03 |   -- |   0.00%
```

SCIP Status   : problem is solved [optimal solution found]
Solving Time (sec) : 0.08
Solving Nodes   : 1
Primal Bound   : +6.02940260073232e+03 (2 solutions)
Dual Bound   : +6.02940260073232e+03
Gap   : 0.00 %
WARNING: Dual information only available for pure LPs (only continuous variables).
GCG 4.0.0: optimal solution; objective 6028.402688
73 simplex iterations
1 branching nodes

"option abs_boundtol 5.6843418860800002e-14;"
or "option rel_boundtol 3.2617566636402007e-16;"
will change deduced dual values.