25/07/2018 NEOS Job #6179583



NEOS Server Version 5.0 Job# : 6179583 Password : PKOlxpDd User : None

Solver : milp:CPLEX:GAMS Start : 2018-07-25 15:28:09 End : 2018-07-25 15:33:30 Host : NEOS HTCondor Pool

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Executed on prod-exec-4.neos-server.org
GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/25/18 15:28:11 Page 1
General Algebraic Modeling System
Compilation

COMPILATION TIME = 0.003 SECONDS 3 MB 24.9.2 r64480 LEX-LEG GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/25/18 15:28:11 Page 2 G e n e r a l A l g e b r a i c M o d e l i n g S y s t e m Model Analysis SOLVE aero_model Using MIP From line 1218

**** 2430 Integer +INF Bounds have been reset to 100 (see Option IntVarUp)

GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/25/18 15:28:11 Page 3 G e n e r a l A l g e b r a i c M o d e l i n g S y s t e m

Model Statistics SOLVE aero model Using MIP From line 1218

LOOPS zz z1

MODEL STATISTICS

BLOCKS OF EQUATIONS 59 SINGLE EQUATIONS 537,709
BLOCKS OF VARIABLES 38 SINGLE VARIABLES 932,864
NON ZERO ELEMENTS 4,930,732 DISCRETE VARIABLES 2,459

GENERATION TIME = 154.887 SECONDS 1,045 MB 24.9.2 r64480 LEX-LEG

EXECUTION TIME = 156.513 SECONDS 1,045 MB 24.9.2 r64480 LEX-LEG L O O P S zz z1

GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/25/18 15:28:11 Page 4 G e n e r a l A l g e b r a i c M o d e l i n g S y s t e m Solution Report SOLVE aero_model Using MIP From line 1218

25/07/2018 NEOS Job #6179583 MODEL aero model OBJECTIVE objective DIRECTION MAXIMIZE TYPE мтр SOLVER CPLEX FROM LINE 1218 **** SOLVER STATUS 1 Normal Completion **** MODEL STATUS 1 Optimal **** OBJECTIVE VALUE -7658652.4760 RESOURCE USAGE, LIMIT 151.194 1728000000.000 ITERATION COUNT, LIMIT 240 900000000 IBM ILOG CPLEX 24.9.2 r64480 Released Nov 14, 2017 LEG x86 64bit/Linux --- GAMS/Cplex licensed for continuous and discrete problems. Cplex 12.7.1.0 Space for names approximately 62.13 Mb Use option 'names no' to turn use of names off MIP status(101): integer optimal solution Cplex Time: 110.42sec (det. 65092.73 ticks) Fixing integer variables, and solving final LP... Fixed MIP status(1): optimal Cplex Time: 38.55sec (det. 15060.49 ticks) Proven optimal solution. (240 iterations, 0 nodes) MIP Solution: -7658652.476030 Final Solve: -7658652.476030 (0 iterations) Best possible: -7658652.476030 0.000000 Absolute gap: 0.000000 Relative gap: **** REPORT SUMMARY : 0 ИОИОРТ 0 INFEASIBLE 0 UNBOUNDED GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/25/18 15:28:11 Page 5 General Algebraic Modeling System Execution 1220 VARIABLE results.L Results z1 -7.65865E+6 1221 VARIABLE Production.L Production at plant f of product p in day d (ALL 0.000)1221 VARIABLE Flow.L Flow of material m from l.origin to l.destination in period t (in units) INDEX 1 = w3 INDEX 2 = j1 INDEX 3 = p1у1 y2 y3 y4 truck XL own 17.000 17.000 17.000 17.000 17.000 truck_XL_own .t2 truck_XL_own 17.000 17.000 .t3 truck XL own .t4 17.000 truck XL own .t5 17.000 truck XL own .t7 17.000 17.000 17.000 truck_XL_own .t8 17.000 truck XL own 17.000 17.000 17.000 .t9 у6 у7 у8 у9 17.000 truck_XL_own .t.1 17,000

17.000

17.000

17.000

.t3

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truck_XL_own

truck XL own

truck XL own

truck_XL_own

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truck XL own

25/07/2018 NEOS Job #6179583

| 25/07/2018 | | | | NEOS Job #6 | 179583 |
|------------------------|-----------|------------|--------|-------------|--------|
| | + | y10 | y11 | y13 | y14 |
| | • | 110 | 1 | 113 | 1-1 |
| truck XL own | .t1 | | | 17.000 | |
| | .t3 | 17.000 | 17.000 | 17.000 | |
| truck_XL_own | | 17.000 | | | 17 000 |
| truck_XL_own | .t4 | | 17.000 | | 17.000 |
| truck_XL_own | •t7 | | 17.000 | | |
| truck_XL_own | .t8 | 17.000 | | | |
| | | | | | |
| | + | y15 | | | |
| | | | | | |
| truck_XL_own | .t3 | 17.000 | | | |
| truck XL own | .t7 | 17.000 | | | |
| truck XL own | .t8 | 17.000 | | | |
| truck XL own | .t12 | 17.000 | | | |
| | | | | | |
| INDEX $1 = w3$ | INDEX 2 = | j1 INDEX 3 | = n2 | | |
| | | J | P- | | |
| | | y 1 | y2 | у3 | y4 |
| | | <i>y</i> = | 12 | 13 | J I |
| + was als VI or m | + 2 | | 17.000 | 17.000 | 17 000 |
| truck_XL_own | .t2 | | 17.000 | 17.000 | 17.000 |
| truck_XL_own | .t3 | 4.7. 000 | 1. | | 17.000 |
| truck_XL_own | .t5 | 17.000 | 17.000 | | |
| $truck_XL_own$ | .t6 | | | | 17.000 |
| ${\tt truck_XL_own}$ | .t11 | | | | 17.000 |
| ${\tt truck_XL_own}$ | .t12 | 17.000 | 17.000 | 17.000 | 17.000 |
| | | | | | |
| | + | у5 | у6 | у7 | У8 |
| | | | | | |
| truck XL own | .t1 | 17.000 | 17.000 | | |
| truck XL own | .t3 | | 17.000 | | 17.000 |
| truck_XL_own | .t4 | | | | 17.000 |
| truck XL own | .t6 | 17.000 | 17.000 | | |
| truck XL own | .t11 | 17.000 | 17.000 | 17.000 | 17.000 |
| truck XL own | .t12 | 17.000 | 17.000 | 17.000 | 17.000 |
| CI uck_xLL_OWII | • (12 | 17.000 | 17.000 | 17.000 | |
| | | 0 | 10 | 11 | 10 |
| | + | у9 | y10 | y11 | y12 |
| | | | | | |
| $truck_XL_own$ | .t1 | 17.000 | 17.000 | 17.000 | 17.000 |
| truck_XL_own | .t2 | 17.000 | | | 17.000 |
| $truck_XL_own$ | .t3 | | | | 17.000 |
| truck_XL_own | .t4 | | 17.000 | | 17.000 |
| truck XL own | .t5 | 17.000 | | | |
| truck XL own | .t6 | | 17.000 | | |
| truck_XL_own | .t11 | 17.000 | 17.000 | | 17.000 |
| truck XL own | .t12 | 17.000 | 17.000 | 17.000 | 17.000 |
| | | | | | |
| | + | y13 | y14 | y15 | |
| | • | 113 | 1 | 113 | |
| truck XL own | .t1 | | | 17.000 | |
| truck XL own | .t2 | | | 17.000 | |
| | | 17 000 | | 17.000 | |
| truck_XL_own | .t3 | 17.000 | | 17 000 | |
| truck_XL_own | •t4 | 4.7. 000 | 1. | 17.000 | |
| $truck_XL_own$ | .t5 | 17.000 | 17.000 | 17.000 | |
| truck_XL_own | .t11 | 17.000 | 17.000 | 17.000 | |
| ${\tt truck_XL_own}$ | .t12 | 17.000 | 17.000 | | |
| | | | | | |
| INDEX $1 = w3$ | INDEX 2 = | j1 INDEX 3 | = p3 | | |
| | | | | | |
| | | y 1 | y2 | у3 | y4 |
| | | | | | |
| truck XL own | .t3 | | | 17.000 | |
| truck XL own | .t4 | 17.000 | 17.000 | 17.000 | |
| truck XL own | .t5 | | | 17.000 | |
| truck XL own | .t6 | 17.000 | 17.000 | 17.000 | |
| truck XL own | •t7 | | 17.000 | | 17.000 |
| truck XL own | .t8 | 17.000 | _, | 17.000 | _,.000 |
| truck_XL_own | .to | 17.000 | | 17.000 | |
| | | 17 000 | 17 000 | | 17 000 |
| truck_XL_own | .t10 | 17.000 | 17.000 | 17.000 | 17.000 |
| truck_XL_own | .t11 | 17.000 | 17.000 | 17.000 | |
| | .= | _ | _ | _ | _ |
| | + | y 5 | у6 | у7 | у8 |
| | | | | , - | |
| $truck_XL_own$ | .t2 | 17.000 | 17.000 | 17.000 | 17.000 |
| $truck_XL_own$ | .t3 | 17.000 | | 17.000 | |
| $truck_XL_own$ | .t4 | 17.000 | | 17.000 | |
| truck_XL_own | .t5 | 17.000 | | | 17.000 |
| truck_XL_own | .t6 | | | 17.000 | 17.000 |
| truck XL own | | 17.000 | 17.000 | | 17.000 |
| CLUCK AL OWII | .t7 | 17.000 | 17.000 | | 1/.000 |

| 25/07/2018 | | | | NEOS Job | #6170583 |
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| truck XL own | .t10 | 17.000 | 17.000 | 17.000 | 17.000 |
| truck_XL_own | .t12 | | | | 17.000 |
| | | 0 | 10 | 11 | 10 |
| | + | у9 | y10 | y11 | y12 |
| truck XL own | .t2 | | 17.000 | 17.000 | |
| truck_XL_own | .t5 | | 17.000 | 17.000 | 17.000 |
| truck_XL_own | .t6 | 17.000 | | 17.000 | 17.000 |
| truck_XL_own | .t7 | 17.000 | 17.000 | 17 000 | 17.000 |
| truck_XL_own | .t8 | 17.000 | 17 000 | 17.000 | 17.000 |
| truck_XL_own truck XL own | .t9 .t10 | 17.000 | 17.000 17.000 | 17.000 17.000 | 17.000 17.000 |
| truck XL own | .t11 | 17.000 | 17.000 | 17.000 | 17.000 |
| | | | | | |
| | + | y13 | y14 | y15 | |
| | | | 17 000 | | |
| truck_XL_own | .t1 .t2 | 17.000 | 17.000 | | |
| truck_XL_own truck XL own | .t2 | 17.000 | 17.000 17.000 | | |
| truck XL own | .t4 | 17.000 | 17.000 | | |
| truck XL own | .t6 | 17.000 | 17.000 | 17.000 | |
| truck_XL_own | .t7 | 17.000 | 17.000 | | |
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| truck_XL_own | .t9 | 17.000 | 17.000 | 17.000 | |
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| 1221 V | ARIABLE | Forming.L F | orming scena | rio s is act: | ive |
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| 1221 W | ARTART.F | MatOrder.L | Order quanti | ty of materia | al m from supplier i t |
| 1221 V | АКТАРПЕ | | | n day d (in ur | |
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| 1221 V | ARIABLE | StockLevel.L | Amount of | material m st | tored in facility w in |
| 1221 V | ARIABLE | ` | , | material m st | tored in facility w in |
| 1221 V | ARIABLE | ` | Amount of | material m st | tored in facility w in |
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| | | StockLevel.L | Amount of day d 0.000) est.L Fixed | l capital inve | tored in facility w in |
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| 1221 V | ARIABLE | StockLevel.L | Amount of day d 0.000) est.L Fixed | l capital inve | |
| 1221 Vi | ARIABLE | StockLevel.L (ALL vFixedCapInv | Amount of day d 0.000) est.L Fixed ment | l capital inve | |
| 1221 Vi | ARIABLE | StockLevel.L | Amount of day d 0.000) est.L Fixed ment | l capital inve | |
| 1221 Vi | ARIABLE O ARIABLE | StockLevel.L (ALL vFixedCapInv | Amount of day d 0.000) est.L Fixed ment Cash Flow | l capital inve | estment of each invest |
| 1221 VA fac 500000.000 1221 VA y1 -906617.63 y5 -906617.63 | ARIABLE O ARIABLE 35, y 35, y | StockLevel.L (ALL vFixedCapInv vCashFlow.L 72 -906617.6 76 -906617.6 | Amount of day d 0.000) est.L Fixed ment Cash Flow 35, y3 - 35, y7 - | d capital invegamma -906617.635, | y4 -906617.635 y8 -906617.635 |
| 1221 Vi fac 500000.000 1221 Vi y1 -906617.63 y5 -906617.63 y9 -906617.63 | ARIABLE O ARIABLE 35, y 35, y 35, y | StockLevel.L (ALL vFixedCapInv vCashFlow.L 72 | Amount of day d 0.000) est.L Fixed ment Cash Flow 35, y3 - 35, y7 - 35, y11 - | d capital invegamma -906617.635, -906617.635, | estment of each invest y4 -906617.635 |
| 1221 VA fac 500000.000 1221 VA y1 -906617.63 y5 -906617.63 | ARIABLE O ARIABLE 35, y 35, y 35, y | StockLevel.L (ALL vFixedCapInv vCashFlow.L 72 -906617.6 76 -906617.6 | Amount of day d 0.000) est.L Fixed ment Cash Flow 35, y3 - 35, y7 - 35, y11 - | d capital invegamma -906617.635, | y4 -906617.635 y8 -906617.635 |
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INDEX 1 = truck XL own INDEX 2 = w3 v3 v4 v5 v1v2j1 .t.1 4.250 4.250 4.250 4.250 4.250 j1 4.250 4.250 4.250 4.250 4.250 .t2 4.250 4.250 .t3 4.250 4.250 4.250 j1 j1 .t4 4.250 4.250 4.250 4.250 4.250 4.250 j1 .t5 4.250 4.250 4.250 4.250 j1 4.250 4.250 4.250 4.250 4.250 .t.6 j1 .t7 4.250 4.250 4.250 4.250 4.250 .t8 j1 4.250 4.250 4.250 4.250 4.250 j1 .t9 4.250 4.250 4.250 4.250 4.250 j1 4.250 4.250 4.250 4.250 4.250 .t10 j1 .t11 4.250 4.250 4.250 4.250 4.250 j1 .t12 4.250 4.250 4.250 4.250 4.250 у8 у9 у6 у7 y10 4.250 4.250 4.250 4.250 **j**1 .t1 4.250 j1 .t2 4.250 4.250 4.250 4.250 4.250 j1 .t3 4.250 4.250 4.250 4.250 4.250 j1 .t4 4.250 4.250 4.250 4.250 4.250 j1 .t.5 4.250 4.250 4.250 4.250 4.250 j1 .t6 4.250 4.250 4.250 4.250 4.250 4.250 j1 .t.7 4.250 4.250 4.250 4.250 j1 .t8 4.250 4.250 4.250 4.250 4.250 j1 4.250 4.250 .t9 4.250 4.250 4.250 i1 .t10 4.250 4.250 4.250 4.250 4.250 j1 .t11 4.250 4.250 4.250 4.250 4.250 4.250 4.250 4.250 4.250 4.250 .t12 j1 y11 y12 y13 y14 y15 4.250 4.250 4.250 4.250 4.250 j1 .t1 j1 .t2 4.250 4.250 4.250 4.250 4.250 j1 .t3 4.250 4.250 4.250 4.250 4.250 4.250 4.250 j1 .t4 4.250 4.250 4.250 4.250 4.250 4.250 4.250 j1 .t5 4.250 j1 .t6 4.250 4.250 4.250 4.250 4.250 j1 .t7 4.250 4.250 4.250 4.250 4.250 j1 .t8 4.250 4.250 4.250 4.250 4.250 i1 .t9 4.250 4.250 4.250 4.250 4.250 j1 .t10 4.250 4.250 4.250 4.250 4.250 j1 .+11 4.250 4.250 4.250 4.250 4.250 4.250 4.250 4.250 4.250 4.250 j1 .t12 1221 VARIABLE manuf var cost.L Variable costs of manufacturing (ALL 0.000) 1221 VARIABLE transp var cost.L Variable costs of transportation y1 1305882.336, y2 1305882.336, y3 1305882.336, y4 1305882.336 y6 1305882.336, y8 1305882.336 y7 1305882.336, 1305882.336, v5 1305882.336, y10 1305882.336, y11 1305882.336, y12 1305882.336 y15 1305882.336 y13 1305882.336, y14 1305882.336, 1221 VARIABLE store var cost.L Variable costs of storage (ALL 0.000 1221 VARIABLE vNPV.L = -7.65865E+6 Expected Profit **** REPORT FILE SUMMARY result /var/lib/condor/execute/dir 925848/result.put EXECUTION TIME 2.431 SECONDS 792 MB 24.9.2 r64480 LEX-LEG 25/07/2018 NEOS Job #6179583

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**** FILE SUMMARY

Input /var/lib/condor/execute/dir_925848/MODEL.gms
Output /var/lib/condor/execute/dir_925848/solve.out

