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NEOS Server Version 5.0  
 Job# : 6178757  
 Password : nSIfyuGE  
 User : None  
 Solver : milp:Gurobi:GAMS  
 Start : 2018-07-24 16:48:45  
 End : 2018-07-24 17:12:57  
 Host : NEOS HTCondor Pool

Disclaimer:

This information is provided without any express or implied warranty. In particular, there is no warranty of any kind concerning the fitness of this information for any particular purpose.

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Executed on prod-exec-5.neos-server.org  
 GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/24/18 16:48:47 Page 1  
 General Algebraic Modeling System  
 Compilation

COMPILATION TIME = 0.007 SECONDS 3 MB 24.9.2 r64480 LEX-LEG  
 GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/24/18 16:48:47 Page 2  
 General Algebraic Modeling System  
 Model Analysis SOLVE aero\_model Using MIP From line 1216

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

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GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/24/18 16:48:47 Page 3  
 General Algebraic Modeling System  
 Model Statistics SOLVE aero\_model Using MIP From line 1216

LOOPS zz z1

MODEL STATISTICS

BLOCKS OF EQUATIONS	64	SINGLE EQUATIONS	558,499
BLOCKS OF VARIABLES	38	SINGLE VARIABLES	932,864
NON ZERO ELEMENTS	5,473,927	DISCRETE VARIABLES	2,459

GENERATION TIME = 300.756 SECONDS 1,068 MB 24.9.2 r64480 LEX-LEG

EXECUTION TIME = 303.920 SECONDS 1,068 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 07/24/18 16:48:47 Page 4  
 General Algebraic Modeling System  
 Solution Report SOLVE aero\_model Using MIP From line 1216

S O L V E S U M M A R Y

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MODEL    aero_model      OBJECTIVE objective
TYPE      MIP             DIRECTION MAXIMIZE
SOLVER    CPLEX           FROM LINE 1216

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**** SOLVER STATUS      1 Normal Completion
**** MODEL STATUS       8 Integer Solution
**** OBJECTIVE VALUE    -762307370.6515

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RESOURCE USAGE, LIMIT      1127.469 1728000000.000
ITERATION COUNT, LIMIT    78198     900000000

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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

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Space for names approximately 62.69 Mb
Use option 'names no' to turn use of names off
MIP status(102): integer optimal, tolerance
Cplex Time: 1088.01sec (det. 164038.70 ticks)
Fixing integer variables, and solving final LP...
Fixed MIP status(1): optimal
Cplex Time: 35.34sec (det. 10389.99 ticks)
Solution satisfies tolerances.

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MIP Solution: -762307370.651457 (47939 iterations, 0 nodes)
Final Solve: -762307370.651457 (30259 iterations)

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Best possible: -761428147.358228
Absolute gap: 879223.293229
Relative gap: 0.001153

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**** REPORT SUMMARY :      0      NONOPT
                        0 INFEASIBLE
                        0 UNBOUNDED

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GAMS 24.9.2 r64480 Released Nov 14, 2017 LEX-LEG x86 64bit/Linux 07/24/18 16:48:47 Page 5
General Algebraic Modeling System
Execution

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---- 1218 VARIABLE results.L Results

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z1 -7.62307E+8

```

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---- 1219 VARIABLE Production.L Production at plant f of product p in day d

```

```

INDEX 1 = f1

```

	y1	y2	y3	y4	y5	y6
p2.t1	38.769	38.769	17.000	34.000	38.769	25.846
p2.t2	38.769	12.231	30.435		38.769	25.846
p2.t3	7.462		51.692	17.000	33.231	25.846
p2.t4		38.769		38.769		23.077
p2.t5		38.769	51.692	38.769		25.846
p2.t6	34.000	34.596		26.121	25.231	
p2.t7			2.181			
p2.t8	38.769			38.769		25.846
p2.t9	12.231				29.231	25.846
p2.t10		38.769	51.000		38.769	25.846
p2.t11	17.000					
p2.t12	17.000	2.097		10.571		
+	y7	y8	y9	y10	y11	y12
p2.t1	25.846	25.846	17.000	17.000	17.000	17.000
p2.t2	25.846	25.846	17.000	17.000	17.000	17.000
p2.t3			17.000	17.000	17.000	17.000
p2.t4	25.846	25.846	17.000	17.000	17.000	17.000
p2.t5	25.846	25.846	17.000	17.000	17.000	17.000
p2.t6	25.846	15.615	17.000	17.000	17.000	17.000
p2.t7			17.000	17.000	17.000	17.000
p2.t8	25.846	25.846	17.000	17.000	17.000	17.000
p2.t9	6.077	8.154	17.000	17.000	17.000	17.000
p2.t10	25.846	25.154	17.000	17.000	17.000	17.000

p2.t11		25.846	17.000	17.000	17.000	17.000
p2.t12	17.000		17.000	17.000	17.000	17.000

	+	y13	y14	y15
p2.t1		17.000	17.000	17.000
p2.t2		17.000	17.000	17.000
p2.t3		17.000	17.000	17.000
p2.t4		17.000	17.000	17.000
p2.t5		17.000	17.000	17.000
p2.t6		17.000	17.000	17.000
p2.t7		17.000	17.000	17.000
p2.t8		17.000	17.000	17.000
p2.t9		17.000	17.000	17.000
p2.t10		17.000	17.000	17.000
p2.t11		17.000	17.000	17.000
p2.t12		17.000	17.000	17.000

---- 1219 VARIABLE Flow.L Flow of material m from l.origin to l.destination  
in period t (in units)

INDEX 1 = i1 INDEX 2 = f1 INDEX 3 = rm2

		y1	y2	y3	y4
truck_out	.t2			116503.615	
truck_out	.t8				148408.615
truckCOOL_own	.t4		148408.615		
truckCOOL_own	.t5				148408.615
truckCOOL_own	.t12	65076.000			
truckCOOL_out	.t1		148408.615		
truckCOOL_out	.t3	28562.769			
truckCOOL_out	.t6	130152.000			
truck_XL_own	.t3			197878.154	
truck_XL_own	.t5		148408.615		
truck_XL_own	.t11	65076.000			
truck_XL_own	.t12		8026.282		
truck_XL_out	.t8	148408.615			
truck_XL_out	.t10		148408.615		
truckCOOL_XL_own.t1		148408.615			
truckCOOL_XL_out.t2			46819.385		
truckCOOL_XL_out.t6					99991.933

	+	y5	y6	y7	y8
truck_own	.t1	148408.615			
truck_own	.t2		98939.077		
truck_own	.t12			65076.000	
truck_out	.t1		98939.077		
truck_out	.t5		98939.077		
truck_out	.t11				98939.077
truckCOOL_own	.t1			98939.077	
truckCOOL_own	.t2			98939.077	
truckCOOL_own	.t3	127207.612			
truckCOOL_own	.t9		98939.077		
truckCOOL_out	.t2	148408.615			
truckCOOL_out	.t10		98939.077		
truck_XL_own	.t4				98939.077
truck_XL_own	.t8			98939.077	
truck_XL_out	.t3		98939.077		
truck_XL_out	.t4			98939.077	
truckCOOL_XL_own.t1					98939.077
truckCOOL_XL_out.t2					98939.077
truckCOOL_XL_out.t4			88338.462		
truckCOOL_XL_out.t5				98939.077	
truckCOOL_XL_out.t8			98939.077		

	+	y9	y10	y11	y12
truck_XL_own	.t1	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t2	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t3	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t4	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t5	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t6	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t7	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t8	65076.000	65076.000	65076.000	65076.000

truck_XL_own	.t9	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t10	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t11	65076.000	65076.000	65076.000	65076.000
truck_XL_own	.t12	65076.000	65076.000	65076.000	65076.000

	+	y13	y14	y15
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truck_XL_own	.t1	65076.000	65076.000	65076.000
truck_XL_own	.t2	65076.000	65076.000	65076.000
truck_XL_own	.t3	65076.000	65076.000	65076.000
truck_XL_own	.t4	65076.000	65076.000	65076.000
truck_XL_own	.t5	65076.000	65076.000	65076.000
truck_XL_own	.t6	65076.000	65076.000	65076.000
truck_XL_own	.t7	65076.000	65076.000	65076.000
truck_XL_own	.t8	65076.000	65076.000	65076.000
truck_XL_own	.t9	65076.000	65076.000	65076.000
truck_XL_own	.t10	65076.000	65076.000	65076.000
truck_XL_own	.t11	65076.000	65076.000	65076.000
truck_XL_own	.t12	65076.000	65076.000	65076.000

INDEX 1 = i1 INDEX 2 = f1 INDEX 3 = rm3

	y1	y2	y3	y4
--	----	----	----	----

truckCOOL_own	.t1	6513.231		
truckCOOL_own	.t2		5113.011	
truckCOOL_own	.t4		6513.231	
truckCOOL_out	.t3	1253.538		2856.000
truckCOOL_out	.t5		6513.231	
truckCOOL_out	.t7		366.373	
truckCOOL_XL_own.t2			2054.769	
truckCOOL_XL_own.t4				6513.231
truckCOOL_XL_own.t5			8684.308	
truckCOOL_XL_own.t6				4388.361
truckCOOL_XL_own.t8				6513.231
truckCOOL_XL_own.t11	2856.000			
truckCOOL_XL_out.t1			2856.000	
truckCOOL_XL_out.t3			8684.308	
truckCOOL_XL_out.t5				6513.231
truckCOOL_XL_out.t6	5712.000			
truckCOOL_XL_out.t9	2054.769			
truckCOOL_XL_out.t10			8568.000	

	+	y5	y6	y7	y8
--	---	----	----	----	----

truckCOOL_own	.t1				4342.154
truckCOOL_own	.t3		4342.154		
truckCOOL_own	.t5			4342.154	
truckCOOL_own	.t8			4342.154	
truckCOOL_own	.t12			2856.000	
truckCOOL_out	.t6	4238.759			
truckCOOL_out	.t9		4342.154		
truckCOOL_XL_own.t2					4342.154
truckCOOL_XL_own.t3	5582.779				
truckCOOL_XL_own.t4		3876.923	4342.154		
truckCOOL_XL_own.t6					2623.385
truckCOOL_XL_own.t11					4342.154
truckCOOL_XL_out.t1			4342.154		
truckCOOL_XL_out.t2	6513.231				
truckCOOL_XL_out.t5		4342.154			
truckCOOL_XL_out.t8		4342.154			
truckCOOL_XL_out.t9	4910.769				
truckCOOL_XL_out.t10			4342.154		4225.846

	+	y9	y10	y11	y12
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truckCOOL_XL_own.t1	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t2	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t3	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t4	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t5	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t6	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t7	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t8	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t9	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t10	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t11	2856.000	2856.000	2856.000	2856.000
truckCOOL_XL_own.t12	2856.000	2856.000	2856.000	2856.000

	+	y13	y14	y15
truckCOOL_XL_own.t1		2856.000	2856.000	2856.000
truckCOOL_XL_own.t2		2856.000	2856.000	2856.000
truckCOOL_XL_own.t3		2856.000	2856.000	2856.000
truckCOOL_XL_own.t4		2856.000	2856.000	2856.000
truckCOOL_XL_own.t5		2856.000	2856.000	2856.000
truckCOOL_XL_own.t6		2856.000	2856.000	2856.000
truckCOOL_XL_own.t7		2856.000	2856.000	2856.000
truckCOOL_XL_own.t8		2856.000	2856.000	2856.000
truckCOOL_XL_own.t9		2856.000	2856.000	2856.000
truckCOOL_XL_own.t10		2856.000	2856.000	2856.000
truckCOOL_XL_own.t11		2856.000	2856.000	2856.000
truckCOOL_XL_own.t12		2856.000	2856.000	2856.000

INDEX 1 = i1 INDEX 2 = f1 INDEX 3 = sp1

		y1	y2	y3	y4
truck_own	.t8				23261.538
truck_out	.t5		23261.538		
truck_XL_own	.t1	23261.538			
truck_XL_own	.t12				6342.668
truckCOOL_XL_own.t2			18260.755		
truckCOOL_XL_own.t5					23261.538

	+	y6	y7	y9	y10
truckCOOL_own	.t4	13846.154			
truckCOOL_out	.t5	15507.692			
truckCOOL_out	.t9		3646.154		
truckCOOL_out	.t10	15507.692			
truck_XL_own	.t1			10200.000	10200.000
truck_XL_own	.t2			10200.000	10200.000
truck_XL_own	.t3			10200.000	10200.000
truck_XL_own	.t4			10200.000	10200.000
truck_XL_own	.t5			10200.000	10200.000
truck_XL_own	.t6			10200.000	10200.000
truck_XL_own	.t7			10200.000	10200.000
truck_XL_own	.t8			10200.000	10200.000
truck_XL_own	.t9			10200.000	10200.000
truck_XL_own	.t10			10200.000	10200.000
truck_XL_own	.t11			10200.000	10200.000
truck_XL_own	.t12			10200.000	10200.000
truckCOOL_XL_out.t8			15507.692		

	+	y11	y12	y13	y14
truck_XL_own	.t1	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t2	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t3	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t4	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t5	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t6	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t7	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t8	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t9	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t10	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t11	10200.000	10200.000	10200.000	10200.000
truck_XL_own	.t12	10200.000	10200.000	10200.000	10200.000

	+	y15
truck_XL_own	.t1	10200.000
truck_XL_own	.t2	10200.000
truck_XL_own	.t3	10200.000
truck_XL_own	.t4	10200.000
truck_XL_own	.t5	10200.000
truck_XL_own	.t6	10200.000
truck_XL_own	.t7	10200.000
truck_XL_own	.t8	10200.000
truck_XL_own	.t9	10200.000
truck_XL_own	.t10	10200.000
truck_XL_own	.t11	10200.000
truck_XL_own	.t12	10200.000

INDEX 1 = i1 INDEX 2 = f1 INDEX 3 = sp2

		y1	y2	y3	y4
truck_own	.t4		69784.615		
truck_own	.t9	22015.385			
truck_out	.t12		3774.114		
truckCOOL_own	.t4				69784.615
truckCOOL_own	.t7			3925.428	
truckCOOL_out	.t8	69784.615			
truck_XL_own	.t5			93046.154	
truck_XL_own	.t10			91800.000	
truck_XL_own	.t12	30600.000			
truck_XL_out	.t3	13430.769			
truck_XL_out	.t8				69784.615
truckCOOL_XL_own.t2			54782.264		
truckCOOL_XL_out.t1		69784.615			
truckCOOL_XL_out.t3					30600.000

		y5	y6	y7	y8
truck_own	.t3		46523.077		
truck_own	.t9			10938.462	
truck_out	.t4			46523.077	
truck_out	.t6	45415.278			
truck_out	.t10		46523.077		
truckCOOL_own	.t6				28107.692
truck_XL_own	.t12			30600.000	
truckCOOL_XL_own.t2					46523.077
truckCOOL_XL_own.t11					46523.077
truckCOOL_XL_out.t2				46523.077	
truckCOOL_XL_out.t4			41538.462		
truckCOOL_XL_out.t5				46523.077	

		y9	y10	y11	y12
truck_XL_own	.t1	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t2	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t3	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t4	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t5	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t6	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t7	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t8	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t9	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t10	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t11	30600.000	30600.000	30600.000	30600.000
truck_XL_own	.t12	30600.000	30600.000	30600.000	30600.000

		y13	y14	y15
truck_XL_own	.t1	30600.000	30600.000	30600.000
truck_XL_own	.t2	30600.000	30600.000	30600.000
truck_XL_own	.t3	30600.000	30600.000	30600.000
truck_XL_own	.t4	30600.000	30600.000	30600.000
truck_XL_own	.t5	30600.000	30600.000	30600.000
truck_XL_own	.t6	30600.000	30600.000	30600.000
truck_XL_own	.t7	30600.000	30600.000	30600.000
truck_XL_own	.t8	30600.000	30600.000	30600.000
truck_XL_own	.t9	30600.000	30600.000	30600.000
truck_XL_own	.t10	30600.000	30600.000	30600.000
truck_XL_own	.t11	30600.000	30600.000	30600.000
truck_XL_own	.t12	30600.000	30600.000	30600.000

INDEX 1 = i3   INDEX 2 = f1   INDEX 3 = rm2

		y1	y2	y3	y4
truck_own	.t9	46819.385			
truckCOOL_out	.t1			65076.000	
truckCOOL_out	.t6		132431.872		
truckCOOL_out	.t7			8348.077	
truckCOOL_out	.t10			195228.000	
truck_XL_own	.t1				130152.000
truck_XL_own	.t5			197878.154	
truck_XL_out	.t2	148408.615			
truckCOOL_XL_own.t4					148408.615
truckCOOL_XL_out.t3					65076.000
truckCOOL_XL_out.t12					40466.221

	+	y5	y7	y8
truck_out	.t5			98939.077
truck_out	.t10			96288.923
truckCOOL_own	.t8			98939.077
truckCOOL_own	.t10	148408.615		
truckCOOL_out	.t6		98939.077	59775.692
truckCOOL_out	.t9		23262.462	
truck_XL_own	.t9	111895.385		
truck_XL_own	.t10		98939.077	
truckCOOL_XL_own.t6		96583.158		
truckCOOL_XL_own.t9				31212.923

INDEX 1 = i3 INDEX 2 = f1 INDEX 3 = rm3

		y1	y2	y4	y5
truckCOOL_own	.t6		5812.057		
truckCOOL_own	.t10		6513.231		6513.231
truckCOOL_own	.t12		352.251		
truckCOOL_out	.t1			5712.000	
truckCOOL_out	.t12	2856.000			
truckCOOL_XL_own.t1			6513.231		
truckCOOL_XL_own.t12				1775.947	
truckCOOL_XL_out.t1					6513.231
truckCOOL_XL_out.t2		6513.231			
truckCOOL_XL_out.t8		6513.231			

	+	y6	y7	y8
truckCOOL_own	.t1	4342.154		
truckCOOL_own	.t5			4342.154
truckCOOL_own	.t9		1020.923	
truckCOOL_own	.t10	4342.154		
truckCOOL_out	.t2	4342.154	4342.154	
truckCOOL_XL_own.t9				1369.846
truckCOOL_XL_out.t4				4342.154
truckCOOL_XL_out.t6			4342.154	
truckCOOL_XL_out.t8				4342.154

INDEX 1 = i3 INDEX 2 = f1 INDEX 3 = sp1

		y1	y2	y3	y4
truck_own	.t3	4476.923			10200.000
truck_out	.t6				15672.717
truckCOOL_own	.t5			31015.385	
truckCOOL_out	.t2	23261.538			
truckCOOL_out	.t4		23261.538		
truckCOOL_out	.t10		23261.538		
truckCOOL_out	.t12	10200.000			
truck_XL_own	.t1				20400.000
truck_XL_own	.t2		7338.462		
truck_XL_own	.t6		20757.347		
truck_XL_own	.t9	7338.462			
truck_XL_out	.t1		23261.538		
truck_XL_out	.t6	20400.000			
truck_XL_out	.t8	23261.538			
truck_XL_out	.t10			30600.000	
truck_XL_out	.t11	10200.000			
truckCOOL_XL_own.t1				10200.000	
truckCOOL_XL_own.t3				31015.385	
truckCOOL_XL_own.t4					23261.538
truckCOOL_XL_own.t7				1308.476	
truckCOOL_XL_own.t12			1258.038		

	+	y5	y6	y7	y8
truck_own	.t6	15138.426			
truck_own	.t10				15092.308
truck_out	.t3	19938.497			
truck_out	.t8				15507.692
truck_out	.t9				4892.308
truck_out	.t11				15507.692
truckCOOL_own	.t1		15507.692	15507.692	
truckCOOL_own	.t2		15507.692	15507.692	
truckCOOL_own	.t6			15507.692	

truckCOOL_own	.t10		15507.692	
truckCOOL_out	.t1			15507.692
truckCOOL_out	.t3	15507.692		
truckCOOL_out	.t9	15507.692		
truckCOOL_out	.t12		10200.000	
truck_XL_own	.t4			15507.692
truck_XL_own	.t5		15507.692	
truck_XL_out	.t4		15507.692	
truck_XL_out	.t5			15507.692
truckCOOL_XL_own.t1	23261.538			
truckCOOL_XL_own.t2				15507.692
truckCOOL_XL_own.t6				9369.231
truckCOOL_XL_own.t8		15507.692		
truckCOOL_XL_own.t9	17538.462			
truckCOOL_XL_out.t2	23261.538			
truckCOOL_XL_out.t10	23261.538			

INDEX 1 = i3 INDEX 2 = f1 INDEX 3 = sp2

		y1	y2	y3	y4
truck_out	.t1				61200.000
truck_out	.t5				69784.615
truckCOOL_out	.t2	69784.615			
truck_XL_own	.t2		22015.385		
truck_XL_own	.t6		62272.040		47018.150
truckCOOL_XL_own.t3				93046.154	
truckCOOL_XL_own.t10			69784.615		
truckCOOL_XL_own.t11	30600.000				
truckCOOL_XL_out.t1	69784.615			30600.000	
truckCOOL_XL_out.t5			69784.615		
truckCOOL_XL_out.t6	61200.000				
truckCOOL_XL_out.t12					19028.003

		+	y5	y6	y7	y8
truck_own	.t1					46523.077
truck_own	.t8			46523.077		
truck_own	.t9			46523.077		
truck_own	.t10				46523.077	
truck_out	.t1	69784.615				
truck_out	.t5		46523.077			
truck_out	.t9					14676.923
truck_out	.t10					45276.923
truckCOOL_own	.t2		46523.077			
truckCOOL_out	.t1		46523.077			
truckCOOL_out	.t8					46523.077
truck_XL_own	.t1			46523.077		
truck_XL_own	.t2	69784.615				
truck_XL_own	.t3	59815.491				
truck_XL_own	.t4					46523.077
truck_XL_own	.t9	52615.385				
truck_XL_own	.t10	69784.615				
truckCOOL_XL_own.t5						46523.077
truckCOOL_XL_own.t8				46523.077		
truckCOOL_XL_out.t6				46523.077		

INDEX 1 = f1 INDEX 2 = airPT INDEX 3 = p2

		y1	y2	y6	y7
truck_XL_own	.t9			17.000	
truck_XL_own	.t10	17.000			
truck_XL_out	.t4				17.000
truckCOOL_XL_own.t2				17.000	
truckCOOL_XL_own.t3			17.000		
	+		y8		
truck_XL_own	.t3	7.752			
truckCOOL_XL_own.t1		17.000			
truckCOOL_XL_out.t3		9.248			

INDEX 1 = f1 INDEX 2 = airFR INDEX 3 = p2

		y1	y7
truck_XL_own	.t7		17.000



truckCOOL\_XL\_own.t1 17.000

INDEX 1 = f1 INDEX 2 = portPT INDEX 3 = p2

	y1	y2	y3	y4
truck_XL_own .t1		17.000		17.000
truck_XL_own .t2			17.000	
truck_XL_own .t3			17.000	17.000
truck_XL_own .t4		17.000		17.000
truck_XL_own .t6		17.000		17.000
truck_XL_own .t7		17.000		
truck_XL_own .t8				17.000
truck_XL_own .t9				17.000
truck_XL_own .t10		17.000	17.000	17.000
truck_XL_own .t11		17.000		
truck_XL_own .t12			17.000	17.000
truck_XL_out .t3	12.346			
truckCOOL_XL_own.t1			17.000	
truckCOOL_XL_own.t2	17.000	17.000		17.000
truckCOOL_XL_own.t4			17.000	
truckCOOL_XL_own.t5		17.000	17.000	17.000
truckCOOL_XL_own.t6			17.000	
truckCOOL_XL_own.t7			17.000	17.000
truckCOOL_XL_own.t8			17.000	
truckCOOL_XL_own.t9		17.000	17.000	
truckCOOL_XL_own.t11	17.000		17.000	17.000
truckCOOL_XL_own.t12	17.000	17.000		

	+ y5	y6	y7	y8
truck_XL_own .t2	17.000		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
truck_XL_own .t7	17.000			
truck_XL_own .t9	17.000			
truck_XL_own .t10	17.000			
truck_XL_own .t11	17.000			
truck_XL_out .t12			17.000	
truckCOOL_XL_own.t1	17.000	17.000	17.000	
truckCOOL_XL_own.t3	17.000		17.000	
truckCOOL_XL_own.t6		17.000		
truckCOOL_XL_own.t7		17.000		
truckCOOL_XL_own.t8	17.000			17.000
truckCOOL_XL_own.t9			17.000	
truckCOOL_XL_own.t11		17.000		
truckCOOL_XL_own.t12	17.000			
truckCOOL_XL_out.t5				17.000
truckCOOL_XL_out.t11			17.000	

	+ y9	y10	y11	y12
truck_XL_own .t1	17.000	17.000	17.000	17.000
truck_XL_own .t2	17.000	17.000	17.000	17.000
truck_XL_own .t3	17.000	17.000	17.000	17.000
truck_XL_own .t4	17.000	17.000	17.000	17.000
truck_XL_own .t5	17.000	17.000	17.000	17.000
truck_XL_own .t6	17.000	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 .t9	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	17.000
truck_XL_own .t12	17.000	17.000	17.000	17.000

	+ y13	y14	y15
truck_XL_own .t1	17.000	17.000	17.000
truck_XL_own .t2	17.000	17.000	17.000
truck_XL_own .t3	17.000	17.000	17.000
truck_XL_own .t4	17.000	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
truck_XL_own .t8	17.000	17.000	17.000
truck_XL_own .t9	17.000	17.000	17.000
truck_XL_own .t10	17.000	17.000	17.000

truck_XL_own	.t11	17.000	17.000	17.000
truck_XL_own	.t12	17.000	17.000	17.000

INDEX 1 = f1 INDEX 2 = portFR INDEX 3 = p2

		y1	y2	y6	y7
truck_XL_own	.t3	4.654			
truck_XL_own	.t4	17.000			
truck_XL_own	.t6				17.000
truck_XL_own	.t8	17.000			17.000
truck_XL_out	.t10				17.000
truckCOOL_XL_own.t3				17.000	
truckCOOL_XL_own.t5	17.000			17.000	17.000
truckCOOL_XL_own.t7	17.000				
truckCOOL_XL_own.t8			17.000	17.000	
truckCOOL_XL_own.t9	17.000				
truckCOOL_XL_own.t10				17.000	
truckCOOL_XL_own.t12				17.000	
truckCOOL_XL_out.t6	17.000				
	+	y8			
truck_XL_own	.t7	17.000			
truck_XL_out	.t9	17.000			
truck_XL_out	.t10	17.000			
truckCOOL_XL_own.t12	17.000				
truckCOOL_XL_out.t2	17.000				
truckCOOL_XL_out.t11	17.000				

INDEX 1 = airPT INDEX 2 = airBR INDEX 3 = p2

		y1	y6	y7	y8
plane	.t1				17.000
plane	.t2		11.575		
plane	.t3	12.346			
planeCOOL	.t1			17.000	
planeCOOL	.t3				17.000
planeCOOL	.t4			17.000	
planeCOOL	.t10	17.000			

INDEX 1 = airPT INDEX 2 = portPT INDEX 3 = p2

		y6
truckCOOL_XL_own.t9	17.000	

INDEX 1 = airPT INDEX 2 = portFR INDEX 3 = p2

		y2	y6
truck_XL_own	.t2		5.425
truckCOOL_XL_own.t3	17.000		

INDEX 1 = airBR INDEX 2 = j1 INDEX 3 = p2

		y1	y3	y4	y6
truck_XL_own	.t1	17.000			
truck_XL_own	.t2				17.000
truck_XL_own	.t6		17.000		17.000
truck_XL_own	.t10			17.000	
truck_XL_own	.t11			17.000	
truck_XL_out	.t10	17.000			
truckCOOL_XL_own.t2				17.000	
truckCOOL_XL_own.t3	12.346				
truckCOOL_XL_own.t5			17.000		
truckCOOL_XL_own.t12				17.000	
	+	y7	y8		
truck_XL_own	.t3		17.000		
truck_XL_own	.t4	17.000			
truck_XL_out	.t1	17.000			
truckCOOL_XL_out.t7	17.000				

INDEX 1 = airBR INDEX 2 = portBR INDEX 3 = p2

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                                y8

truckCOOL_XL_own.t1          17.000

INDEX 1 = airFR  INDEX 2 = airBR  INDEX 3 = p2

                                y1          y6          y7

plane          .t1          17.000
plane          .t6          17.000
planeCOOL      .t7          17.000

INDEX 1 = portUS  INDEX 2 = portBR  INDEX 3 = p2

                                y1          y7

boat          .t4          17.000
boatCOOL      .t5          17.000

INDEX 1 = portPT  INDEX 2 = airPT  INDEX 3 = p2

                                y1          y7

truck_XL_own   .t1          17.000
truck_XL_own   .t3          12.346

INDEX 1 = portPT  INDEX 2 = airFR  INDEX 3 = p2

                                y6

truck_XL_own   .t6          17.000

INDEX 1 = portPT  INDEX 2 = portBR  INDEX 3 = p2

                                y1          y2          y3          y4

boat          .t1          17.000          17.000          17.000          17.000
boat          .t2          17.000          17.000          17.000          17.000
boat          .t3          17.000          17.000          17.000          17.000
boat          .t4          17.000          17.000          17.000          17.000
boat          .t5          17.000          17.000          17.000          17.000
boat          .t6          17.000          17.000          17.000          17.000
boat          .t7          17.000          17.000          17.000          17.000
boat          .t8          17.000          17.000          17.000          17.000
boat          .t9          17.000          17.000          17.000          17.000
boat          .t10         17.000          17.000          17.000          17.000
boat          .t11         17.000          17.000          17.000          17.000
boat          .t12         17.000          17.000          17.000          17.000
boatCOOL      .t9          17.000
boatCOOL      .t11         17.000

                                +          y5          y6          y7          y8

boat          .t1          17.000
boat          .t2          17.000
boat          .t3          17.000
boat          .t4          17.000          17.000
boat          .t5          17.000
boat          .t6          17.000
boat          .t7          17.000
boat          .t8          17.000          17.000
boat          .t9          17.000
boat          .t10         17.000
boat          .t11         17.000          17.000
boat          .t12         17.000
boatCOOL      .t1          17.000
boatCOOL      .t2          17.000          17.000
boatCOOL      .t3          17.000          17.000
boatCOOL      .t4          17.000          17.000
boatCOOL      .t7          17.000
boatCOOL      .t9          17.000
boatCOOL      .t12         17.000          17.000

                                +          y9          y10          y11          y12

boat          .t1          17.000          17.000          17.000          17.000
boat          .t2          17.000          17.000          17.000          17.000

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boat	.t3	17.000	17.000	17.000	17.000
boat	.t4	17.000	17.000	17.000	17.000
boat	.t5	17.000	17.000	17.000	17.000
boat	.t6	17.000	17.000	17.000	17.000
boat	.t7	17.000	17.000	17.000	17.000
boat	.t8	17.000	17.000	17.000	17.000
boat	.t9	17.000	17.000	17.000	17.000
boat	.t10	17.000	17.000	17.000	17.000
boat	.t11	17.000	17.000	17.000	17.000
boat	.t12	17.000	17.000	17.000	17.000

+ y13 y14 y15

boat	.t1	17.000	17.000	17.000
boat	.t2	17.000	17.000	17.000
boat	.t3	17.000	17.000	17.000
boat	.t4	17.000	17.000	17.000
boat	.t5	17.000	17.000	17.000
boat	.t6	17.000	17.000	17.000
boat	.t7	17.000	17.000	17.000
boat	.t8	17.000	17.000	17.000
boat	.t9	17.000	17.000	17.000
boat	.t10	17.000	17.000	17.000
boat	.t11	17.000	17.000	17.000
boat	.t12	17.000	17.000	17.000

INDEX 1 = portPT INDEX 2 = portFR INDEX 3 = p2

y7 y8

boat	.t11	17.000	
boatCOOL	.t5		17.000
boatCOOL	.t6		17.000
boatCOOL	.t9	17.000	

INDEX 1 = portBR INDEX 2 = j1 INDEX 3 = p2

y1 y2 y3 y4

truck_XL_own	.t2	17.000		
truck_XL_own	.t3	4.654		17.000
truck_XL_own	.t4			17.000
truck_XL_own	.t5	17.000	17.000	
truck_XL_own	.t6			17.000
truck_XL_own	.t7		17.000	17.000
truck_XL_own	.t8			17.000
truck_XL_own	.t9			17.000
truck_XL_own	.t11		17.000	17.000
truck_XL_own	.t12		17.000	
truck_XL_out	.t6	17.000		
truckCOOL_XL_own.t1			17.000	17.000
truckCOOL_XL_own.t2			17.000	
truckCOOL_XL_own.t3			17.000	17.000
truckCOOL_XL_own.t4	17.000		17.000	17.000
truckCOOL_XL_own.t5				17.000
truckCOOL_XL_own.t6			17.000	
truckCOOL_XL_own.t7	17.000		17.000	
truckCOOL_XL_own.t8	17.000		17.000	
truckCOOL_XL_own.t9	17.000		17.000	
truckCOOL_XL_own.t10			17.000	
truckCOOL_XL_own.t11	17.000			
truckCOOL_XL_own.t12			17.000	
truckCOOL_XL_out.t12	17.000			

+ y5 y6 y7 y8

truck_XL_own	.t1	17.000		
truck_XL_own	.t2	17.000		15.566
truck_XL_own	.t3	17.000	17.000	
truck_XL_own	.t4		17.000	
truck_XL_own	.t5		17.000	
truck_XL_own	.t6			17.000
truck_XL_own	.t7	17.000		
truck_XL_own	.t8	17.000		
truck_XL_own	.t10	17.000		
truck_XL_own	.t12	17.000		
truck_XL_out	.t1		17.000	
truck_XL_out	.t2			1.434

truck_XL_out	.t4				17.000
truck_XL_out	.t5				17.000
truck_XL_out	.t7				17.000
truckCOOL_XL_own	.t4	17.000			
truckCOOL_XL_own	.t5	17.000			
truckCOOL_XL_own	.t6	17.000			
truckCOOL_XL_own	.t7		17.000		
truckCOOL_XL_own	.t8		17.000	17.000	17.000
truckCOOL_XL_own	.t9	17.000	17.000	17.000	17.000
truckCOOL_XL_own	.t10		17.000	17.000	17.000
truckCOOL_XL_own	.t11	17.000	17.000	17.000	17.000
truckCOOL_XL_own	.t12		17.000	17.000	17.000
truckCOOL_XL_out	.t1				17.000
truckCOOL_XL_out	.t2				17.000
truckCOOL_XL_out	.t3			17.000	
truckCOOL_XL_out	.t5			17.000	
truckCOOL_XL_out	.t6				17.000

+                    y9                    y10                    y11                    y12

truck_XL_own	.t1	17.000		17.000	17.000
truck_XL_own	.t2			17.000	
truck_XL_own	.t3	17.000		17.000	17.000
truck_XL_own	.t4	17.000	17.000	17.000	
truck_XL_own	.t5	17.000	17.000		
truck_XL_own	.t6	17.000		17.000	
truck_XL_own	.t7		17.000		17.000
truck_XL_own	.t8				17.000
truck_XL_own	.t9		17.000		17.000
truck_XL_own	.t10	17.000		17.000	
truck_XL_own	.t11		17.000	17.000	17.000
truck_XL_own	.t12	17.000			17.000
truckCOOL_XL_own	.t1		17.000		
truckCOOL_XL_own	.t2	17.000	17.000		17.000
truckCOOL_XL_own	.t3		17.000		
truckCOOL_XL_own	.t4				17.000
truckCOOL_XL_own	.t5			17.000	17.000
truckCOOL_XL_own	.t6		17.000		17.000
truckCOOL_XL_own	.t7	17.000		17.000	
truckCOOL_XL_own	.t8	17.000	17.000	17.000	
truckCOOL_XL_own	.t9	17.000		17.000	
truckCOOL_XL_own	.t10		17.000		17.000
truckCOOL_XL_own	.t11	17.000			
truckCOOL_XL_own	.t12		17.000	17.000	

+                    y13                    y14                    y15

truck_XL_own	.t1	17.000			
truck_XL_own	.t3		17.000	17.000	
truck_XL_own	.t4	17.000			
truck_XL_own	.t5		17.000	17.000	
truck_XL_own	.t6	17.000		17.000	
truck_XL_own	.t7			17.000	
truck_XL_own	.t8	17.000	17.000		
truck_XL_own	.t9	17.000	17.000	17.000	
truck_XL_own	.t10	17.000	17.000	17.000	
truck_XL_own	.t12	17.000			
truckCOOL_XL_own	.t1		17.000	17.000	
truckCOOL_XL_own	.t2	17.000	17.000	17.000	
truckCOOL_XL_own	.t3	17.000			
truckCOOL_XL_own	.t4		17.000	17.000	
truckCOOL_XL_own	.t5	17.000			
truckCOOL_XL_own	.t6		17.000		
truckCOOL_XL_own	.t7	17.000	17.000		
truckCOOL_XL_own	.t8			17.000	
truckCOOL_XL_own	.t11	17.000	17.000	17.000	
truckCOOL_XL_own	.t12		17.000	17.000	

INDEX 1 = portBR    INDEX 2 = airBR    INDEX 3 = p2

                  y3                    y4                    y6

truck_XL_own	.t5	17.000			
truck_XL_own	.t6	17.000			
truck_XL_own	.t11		17.000		
truck_XL_own	.t12		17.000		
truckCOOL_XL_own	.t2		17.000	5.425	
truckCOOL_XL_own	.t10		17.000		

INDEX 1 = portFR INDEX 2 = portUS INDEX 3 = p2

y1 y7

boat	.t4	17.000	
boatCOOL	.t5		17.000

INDEX 1 = portFR INDEX 2 = portBR INDEX 3 = p2

y1 y2 y6 y7

boat	.t2			5.425	
boat	.t3	4.654	17.000	17.000	
boat	.t5	17.000			
boat	.t6	17.000			17.000
boat	.t8		17.000	17.000	17.000
boat	.t9	17.000			
boat	.t10				17.000
boat	.t11				17.000
boatCOOL	.t5			17.000	
boatCOOL	.t7	17.000			
boatCOOL	.t8	17.000			
boatCOOL	.t9				17.000
boatCOOL	.t10			17.000	
boatCOOL	.t12			17.000	

+ y8

boat	.t2	17.000
boat	.t6	17.000
boat	.t11	17.000
boatCOOL	.t5	17.000
boatCOOL	.t7	17.000
boatCOOL	.t9	17.000
boatCOOL	.t10	17.000
boatCOOL	.t12	17.000

---- 1219 VARIABLE Forming.L Forming scenario s is active

p2 1.000

---- 1219 VARIABLE MatOrder.L Order quantity of material m from supplier i to plant f in day d (in units)

INDEX 1 = i1 INDEX 2 = f1

y1 y2 y3 y4 y5 y6

rm2.t1	301.337	301.337			301.337	200.892
rm2.t2		95.065	236.556		301.337	200.892
rm2.t3	57.995		401.783		258.290	200.892
rm2.t4		301.337				179.367
rm2.t5		301.337		301.337		200.892
rm2.t6	264.268			203.029		
rm2.t8	301.337			301.337		200.892
rm2.t9						200.892
rm2.t10		301.337				200.892
rm2.t11	132.134					
rm2.t12	132.134	16.297				
rm3.t1	28.318		12.417			
rm3.t2		8.934	22.230		28.318	
rm3.t3	5.450		37.758	12.417	24.273	18.879
rm3.t4		28.318		28.318		16.856
rm3.t5		28.318	37.758	28.318		18.879
rm3.t6	24.835			19.080	18.429	
rm3.t7			1.593			
rm3.t8				28.318		18.879
rm3.t9	8.934				21.351	18.879
rm3.t10			37.252			
rm3.t11	12.417					
sp1.t1	465.231					
sp1.t2			365.215			
sp1.t4						276.923
sp1.t5		465.231		465.231		310.154
sp1.t8				465.231		

sp1.t10					310.154
sp1.t12			126.853		
sp2.t1	1395.692				
sp2.t2		1095.645			
sp2.t3	268.615		612.000		930.462
sp2.t4	1395.692		1395.692		830.769
sp2.t5		1860.923			
sp2.t6				908.306	
sp2.t7		78.509			
sp2.t8	1395.692		1395.692		
sp2.t9	440.308				
sp2.t10		1836.000			930.462
sp2.t12	612.000	75.482			

+	y7	y8	y9	y10	y11	y12
rm2.t1	200.892	200.892	132.134	132.134	132.134	132.134
rm2.t2	200.892	200.892	132.134	132.134	132.134	132.134
rm2.t3			132.134	132.134	132.134	132.134
rm2.t4	200.892	200.892	132.134	132.134	132.134	132.134
rm2.t5	200.892		132.134	132.134	132.134	132.134
rm2.t6			132.134	132.134	132.134	132.134
rm2.t7			132.134	132.134	132.134	132.134
rm2.t8	200.892		132.134	132.134	132.134	132.134
rm2.t9			132.134	132.134	132.134	132.134
rm2.t10			132.134	132.134	132.134	132.134
rm2.t11		200.892	132.134	132.134	132.134	132.134
rm2.t12	132.134		132.134	132.134	132.134	132.134
rm3.t1	18.879	18.879	12.417	12.417	12.417	12.417
rm3.t2		18.879	12.417	12.417	12.417	12.417
rm3.t3			12.417	12.417	12.417	12.417
rm3.t4	18.879		12.417	12.417	12.417	12.417
rm3.t5	18.879		12.417	12.417	12.417	12.417
rm3.t6		11.406	12.417	12.417	12.417	12.417
rm3.t7			12.417	12.417	12.417	12.417
rm3.t8	18.879		12.417	12.417	12.417	12.417
rm3.t9			12.417	12.417	12.417	12.417
rm3.t10	18.879	18.373	12.417	12.417	12.417	12.417
rm3.t11		18.879	12.417	12.417	12.417	12.417
rm3.t12	12.417		12.417	12.417	12.417	12.417
sp1.t1			204.000	204.000	204.000	204.000
sp1.t2			204.000	204.000	204.000	204.000
sp1.t3			204.000	204.000	204.000	204.000
sp1.t4			204.000	204.000	204.000	204.000
sp1.t5			204.000	204.000	204.000	204.000
sp1.t6			204.000	204.000	204.000	204.000
sp1.t7			204.000	204.000	204.000	204.000
sp1.t8	310.154		204.000	204.000	204.000	204.000
sp1.t9	72.923		204.000	204.000	204.000	204.000
sp1.t10			204.000	204.000	204.000	204.000
sp1.t11			204.000	204.000	204.000	204.000
sp1.t12			204.000	204.000	204.000	204.000
sp2.t1			612.000	612.000	612.000	612.000
sp2.t2	930.462	930.462	612.000	612.000	612.000	612.000
sp2.t3			612.000	612.000	612.000	612.000
sp2.t4	930.462		612.000	612.000	612.000	612.000
sp2.t5	930.462		612.000	612.000	612.000	612.000
sp2.t6		562.154	612.000	612.000	612.000	612.000
sp2.t7			612.000	612.000	612.000	612.000
sp2.t8			612.000	612.000	612.000	612.000
sp2.t9	218.769		612.000	612.000	612.000	612.000
sp2.t10			612.000	612.000	612.000	612.000
sp2.t11		930.462	612.000	612.000	612.000	612.000
sp2.t12	612.000		612.000	612.000	612.000	612.000

+	y13	y14	y15
rm2.t1	132.134	132.134	132.134
rm2.t2	132.134	132.134	132.134
rm2.t3	132.134	132.134	132.134
rm2.t4	132.134	132.134	132.134
rm2.t5	132.134	132.134	132.134
rm2.t6	132.134	132.134	132.134
rm2.t7	132.134	132.134	132.134
rm2.t8	132.134	132.134	132.134
rm2.t9	132.134	132.134	132.134
rm2.t10	132.134	132.134	132.134
rm2.t11	132.134	132.134	132.134

rm2.t12	132.134	132.134	132.134
rm3.t1	12.417	12.417	12.417
rm3.t2	12.417	12.417	12.417
rm3.t3	12.417	12.417	12.417
rm3.t4	12.417	12.417	12.417
rm3.t5	12.417	12.417	12.417
rm3.t6	12.417	12.417	12.417
rm3.t7	12.417	12.417	12.417
rm3.t8	12.417	12.417	12.417
rm3.t9	12.417	12.417	12.417
rm3.t10	12.417	12.417	12.417
rm3.t11	12.417	12.417	12.417
rm3.t12	12.417	12.417	12.417
sp1.t1	204.000	204.000	204.000
sp1.t2	204.000	204.000	204.000
sp1.t3	204.000	204.000	204.000
sp1.t4	204.000	204.000	204.000
sp1.t5	204.000	204.000	204.000
sp1.t6	204.000	204.000	204.000
sp1.t7	204.000	204.000	204.000
sp1.t8	204.000	204.000	204.000
sp1.t9	204.000	204.000	204.000
sp1.t10	204.000	204.000	204.000
sp1.t11	204.000	204.000	204.000
sp1.t12	204.000	204.000	204.000
sp2.t1	612.000	612.000	612.000
sp2.t2	612.000	612.000	612.000
sp2.t3	612.000	612.000	612.000
sp2.t4	612.000	612.000	612.000
sp2.t5	612.000	612.000	612.000
sp2.t6	612.000	612.000	612.000
sp2.t7	612.000	612.000	612.000
sp2.t8	612.000	612.000	612.000
sp2.t9	612.000	612.000	612.000
sp2.t10	612.000	612.000	612.000
sp2.t11	612.000	612.000	612.000
sp2.t12	612.000	612.000	612.000

INDEX 1 = i3 INDEX 2 = f1

	y1	y2	y3	y4	y5	y6
rm2.t1			132.134	264.268		
rm2.t2	301.337					
rm2.t3				132.134		
rm2.t4				301.337		
rm2.t5			401.783			
rm2.t6		268.897			196.108	
rm2.t7			16.950			
rm2.t9	95.065				227.199	
rm2.t10			396.402		301.337	
rm2.t12				82.165		
rm3.t1		28.318		24.835	28.318	18.879
rm3.t2	28.318					18.879
rm3.t6		25.270				
rm3.t8	28.318					
rm3.t10		28.318			28.318	18.879
rm3.t12	12.417	1.532		7.722		
sp1.t1		465.231	204.000	408.000	465.231	310.154
sp1.t2	465.231	146.769			465.231	310.154
sp1.t3	89.538		620.308	204.000	398.770	310.154
sp1.t4		465.231		465.231		
sp1.t5			620.308			
sp1.t6	408.000	415.147		313.454	302.769	
sp1.t7			26.170			
sp1.t8	465.231					310.154
sp1.t9	146.769				350.769	310.154
sp1.t10		465.231	612.000		465.231	
sp1.t11	204.000					
sp1.t12	204.000	25.161				
sp2.t1	1395.692		612.000	1224.000	1395.692	930.462
sp2.t2	1395.692	440.308			1395.692	930.462
sp2.t3			1860.923		1196.310	
sp2.t5		1395.692		1395.692		930.462
sp2.t6	1224.000	1245.441		940.363		
sp2.t8						930.462
sp2.t9					1052.308	930.462
sp2.t10		1395.692			1395.692	



sp2.t11 612.000  
 sp2.t12 380.560

+ y7 y8

rm2.t5		200.892
rm2.t6	200.892	121.372
rm2.t8		200.892
rm2.t9	47.233	63.376
rm2.t10	200.892	195.511
rm3.t2	18.879	
rm3.t4		18.879
rm3.t5		18.879
rm3.t6	18.879	
rm3.t8		18.879
rm3.t9	4.439	5.956
sp1.t1	310.154	310.154
sp1.t2	310.154	310.154
sp1.t4	310.154	310.154
sp1.t5	310.154	310.154
sp1.t6	310.154	187.385
sp1.t8		310.154
sp1.t9		97.846
sp1.t10	310.154	301.846
sp1.t11		310.154
sp1.t12	204.000	
sp2.t1	930.462	930.462
sp2.t4		930.462
sp2.t5		930.462
sp2.t6	930.462	
sp2.t8	930.462	930.462
sp2.t9		293.538
sp2.t10	930.462	905.538

---- 1219 VARIABLE StockLevel.L Amount of material m stored in facility w in day d

INDEX 1 = f1

	y1	y2	y3	y4	y5	y6
p2 .t1	21.769	21.769		17.000	21.769	8.846
p2 .t2	43.538	17.000	13.435		43.538	17.692
p2 .t3	34.000		48.127		59.769	26.538
p2 .t4	17.000	21.769	31.127	21.769	42.769	32.615
p2 .t5		43.538	65.819	43.538	25.769	41.462
p2 .t6	17.000	61.134	48.819	52.660	34.000	24.462
p2 .t7		44.134	34.000	35.660	17.000	7.462
p2 .t8	21.769	27.134	17.000	57.429		16.308
p2 .t9	17.000	10.134		40.429	12.231	25.154
p2 .t10		31.903	34.000	23.429	34.000	34.000
p2 .t11		14.903	17.000	6.429	17.000	17.000

+ y7 y8

p2 .t1	8.846	8.846
p2 .t2	17.692	17.692
p2 .t3	0.692	0.692
p2 .t4	9.538	9.538
p2 .t5	18.385	18.385
p2 .t6	27.231	17.000
p2 .t7	10.231	
p2 .t8	19.077	8.846
p2 .t9	8.154	
p2 .t10	17.000	8.154
p2 .t11		17.000

---- 1219 VARIABLE vFixedCapInvest.L Fixed capital investment of each investment gamma

fac 550000.000, equip 7.506514E+8

---- 1219 VARIABLE vCashFlow.L Cash Flow

y9 -4.52024E+6, y10 -4.52024E+6, y11 -4.52684E+6, y12 -4.52684E+6

y13 -4.52684E+6, y14 -4.52684E+6, y15 -4.22434E+6

---- 1219 VARIABLE HireResource.L Hire resource

	y1	y3
o2	1.000	
o4	1.000	
l1	3.000	1.000

---- 1219 VARIABLE FireResource.L Fire resource

	y4	y6
l1	1.000	1.000

---- 1219 VARIABLE Manuf\_NrResource.L Number of resources to hire for line f in period t

	y1	y2	y3	y4	y5	y6
o2	1.000	1.000	1.000	1.000	1.000	1.000
o4	1.000	1.000	1.000	1.000	1.000	1.000
l1	3.000	3.000	4.000	3.000	3.000	2.000

+	y7	y8	y9	y10	y11	y12
o2	1.000	1.000	1.000	1.000	1.000	1.000
o4	1.000	1.000	1.000	1.000	1.000	1.000
l1	2.000	2.000	2.000	2.000	2.000	2.000

+	y13	y14	y15
o2	1.000	1.000	1.000
o4	1.000	1.000	1.000
l1	2.000	2.000	2.000

---- 1219 VARIABLE NrTrips.L Number of trips with transportation mode trm between entity lo and entity ld in time period (d t)

INDEX 1 = truck\_own INDEX 2 = i1

		y1	y2	y4	y5	y6
f1	.t1				1.152	
f1	.t2					0.768
f1	.t3					1.861
f1	.t4		2.791			
f1	.t8			0.930		
f1	.t9	0.881				
	+	y7				
f1	.t9	0.438				
f1	.t12	0.505				

INDEX 1 = truck\_own INDEX 2 = i3

		y1	y4	y5	y6	y7
f1	.t3	0.179	0.408			
f1	.t6			0.606		
f1	.t8				1.861	
f1	.t9	0.363			1.861	
f1	.t10					1.861
	+	y8				
f1	.t1	1.861				
f1	.t10	0.604				

INDEX 1 = truck\_out INDEX 2 = i1

		y2	y3	y4	y5	y6
f1	.t1					0.768
f1	.t2		0.904			
f1	.t5	0.930				0.768
f1	.t6				1.817	
f1	.t8			1.152		
f1	.t10					1.861
f1	.t12	0.151				

+ y7 y8

f1	.t4	1.861	
f1	.t11		0.768

INDEX 1 = truck\_out INDEX 2 = i3

		y4	y5	y6	y8
f1	.t1	2.448	2.791		
f1	.t3		0.798		
f1	.t5	2.791		1.861	0.768
f1	.t6	0.627			
f1	.t8				0.620
f1	.t9				0.783
f1	.t10				2.558
f1	.t11				0.620

INDEX 1 = truckCOOL\_own INDEX 2 = i1

		y1	y2	y3	y4	y5
f1	.t1	0.261				
f1	.t2			0.205		
f1	.t3					0.987
f1	.t4		1.412		2.791	
f1	.t5				1.152	
f1	.t7			0.157		
f1	.t12	0.505				

+ y6 y7 y8

f1	.t1		0.768	0.174
f1	.t2		0.768	
f1	.t3	0.174		
f1	.t4	0.554		
f1	.t5		0.174	
f1	.t6			1.124
f1	.t8		0.174	
f1	.t9	0.768		
f1	.t12		0.114	

INDEX 1 = truckCOOL\_own INDEX 2 = i3

		y2	y3	y5	y6	y7
f1	.t1				0.794	0.620
f1	.t2				2.481	0.620
f1	.t5		1.241			
f1	.t6	0.232				0.620
f1	.t9					0.041
f1	.t10	0.261		1.412	0.174	0.620
f1	.t12	0.014				

+ y8

f1	.t5	0.174
f1	.t8	0.768

INDEX 1 = truckCOOL\_out INDEX 2 = i1

		y1	y2	y3	y4	y5
f1	.t1		1.152			
f1	.t2					1.152
f1	.t3	0.272			0.114	
f1	.t5		0.261			
f1	.t6	1.010				0.170

f1 .t7 0.015

f1 .t8 2.791

+ y6 y7

f1 .t5 0.620

f1 .t9 0.174 0.146

f1 .t10 1.388

INDEX 1 = truckCOOL\_out INDEX 2 = i3

y1 y2 y3 y4 y6

f1 .t1 0.505 0.228 1.861

f1 .t2 3.722 0.174

f1 .t3 0.620

f1 .t4 0.930

f1 .t6 1.028

f1 .t7 0.065

f1 .t9 0.620

f1 .t10 0.930 1.515

f1 .t12 0.522

+ y7 y8

f1 .t1 0.620

f1 .t2 0.174

f1 .t6 0.768 0.464

f1 .t8 1.861

f1 .t9 0.181

f1 .t12 0.408

INDEX 1 = truck\_XL\_own INDEX 2 = i1

y1 y2 y3 y4 y7

f1 .t1 0.582

f1 .t3 0.960

f1 .t5 0.720 2.326

f1 .t8 0.480

f1 .t10 2.295

f1 .t11 0.316

f1 .t12 0.765 0.039 0.159 0.765

+ y8 y9 y10 y11 y12

f1 .t1 1.336 1.336 1.336 1.336

f1 .t2 1.336 1.336 1.336 1.336

f1 .t3 1.336 1.336 1.336 1.336

f1 .t4 0.480 1.336 1.336 1.336 1.336

f1 .t5 1.336 1.336 1.336 1.336

f1 .t6 1.336 1.336 1.336 1.336

f1 .t7 1.336 1.336 1.336 1.336

f1 .t8 1.336 1.336 1.336 1.336

f1 .t9 1.336 1.336 1.336 1.336

f1 .t10 1.336 1.336 1.336 1.336

f1 .t11 1.336 1.336 1.336 1.336

f1 .t12 1.336 1.336 1.336 1.336

+ y13 y14 y15

f1 .t1 1.336 1.336 1.336

f1 .t2 1.336 1.336 1.336

f1 .t3 1.336 1.336 1.336

f1 .t4 1.336 1.336 1.336

f1 .t5 1.336 1.336 1.336

f1 .t6 1.336 1.336 1.336

f1 .t7 1.336 1.336 1.336

f1 .t8 1.336 1.336 1.336

f1 .t9 1.336 1.336 1.336

f1 .t10 1.336 1.336 1.336

f1 .t11 1.336 1.336 1.336

f1 .t12 1.336 1.336 1.336

INDEX 1 = truck\_XL\_own INDEX 2 = i3

y1 y2 y3 y4 y5

f1	.t1			1.141	
f1	.t2		0.734		1.745
f1	.t3				1.495
f1	.t5			0.960	
f1	.t6		2.076	1.175	
f1	.t9	0.183			1.858
f1	.t10				1.745

+ y7 y8

f1	.t1	1.163	
f1	.t4		1.551
f1	.t5	0.388	
f1	.t10	0.480	

INDEX 1 = truck\_XL\_own INDEX 2 = f1

y1 y2 y3 y4 y5

airPT .t10	4.250				
portPT.t1		4.250		4.250	
portPT.t2			4.250		4.250
portPT.t3			4.250	4.250	
portPT.t4		4.250		4.250	4.250
portPT.t5					4.250
portPT.t6		4.250		4.250	4.250
portPT.t7		4.250			4.250
portPT.t8				4.250	
portPT.t9				4.250	4.250
portPT.t10		4.250	4.250	4.250	4.250
portPT.t11		4.250			4.250
portPT.t12			4.250	4.250	
portFR.t3	1.164				
portFR.t4	4.250				
portFR.t8	4.250				

+ y6 y7 y8 y9 y10

airPT .t3			1.938		
airPT .t9	4.250				
airFR .t7		4.250			
portPT.t1				4.250	4.250
portPT.t2		4.250		4.250	4.250
portPT.t3				4.250	4.250
portPT.t4	4.250		4.250	4.250	4.250
portPT.t5				4.250	4.250
portPT.t6			4.250	4.250	4.250
portPT.t7				4.250	4.250
portPT.t8				4.250	4.250
portPT.t9				4.250	4.250
portPT.t10				4.250	4.250
portPT.t11				4.250	4.250
portPT.t12				4.250	4.250
portFR.t6		4.250			
portFR.t7			4.250		
portFR.t8		4.250			

+ y11 y12 y13 y14 y15

portPT.t1	4.250	4.250	4.250	4.250	4.250
portPT.t2	4.250	4.250	4.250	4.250	4.250
portPT.t3	4.250	4.250	4.250	4.250	4.250
portPT.t4	4.250	4.250	4.250	4.250	4.250
portPT.t5	4.250	4.250	4.250	4.250	4.250
portPT.t6	4.250	4.250	4.250	4.250	4.250
portPT.t7	4.250	4.250	4.250	4.250	4.250
portPT.t8	4.250	4.250	4.250	4.250	4.250
portPT.t9	4.250	4.250	4.250	4.250	4.250
portPT.t10	4.250	4.250	4.250	4.250	4.250
portPT.t11	4.250	4.250	4.250	4.250	4.250
portPT.t12	4.250	4.250	4.250	4.250	4.250

INDEX 1 = truck\_XL\_own INDEX 2 = airPT

y6

portFR.t2	1.356
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INDEX 1 = truck\_XL\_own INDEX 2 = airBR

		y1	y3	y4	y6	y7
j1	.t1	4.250				
j1	.t2				4.250	
j1	.t4					4.250
j1	.t6		4.250		4.250	
j1	.t10			4.250		
j1	.t11			4.250		

+ y8

j1 .t3 4.250

INDEX 1 = truck\_XL\_own INDEX 2 = portPT

		y1	y6	y7
airPT	.t1			4.250
airPT	.t3	3.086		
airFR	.t6		4.250	

INDEX 1 = truck\_XL\_own INDEX 2 = portBR

		y1	y2	y3	y4	y5
j1	.t1					4.250
j1	.t2	4.250				4.250
j1	.t3	1.164		4.250		4.250
j1	.t4			4.250		
j1	.t5	4.250	4.250			
j1	.t6				4.250	
j1	.t7			4.250	4.250	4.250
j1	.t8				4.250	4.250
j1	.t9				4.250	
j1	.t10					4.250
j1	.t11		4.250	4.250		
j1	.t12		4.250			4.250
airBR	.t5			4.250		
airBR	.t6			4.250		
airBR	.t11				4.250	
airBR	.t12				4.250	

+ y6 y7 y9 y10 y11

j1	.t1			4.250		4.250
j1	.t2		3.891			4.250
j1	.t3	4.250		4.250		4.250
j1	.t4	4.250		4.250	4.250	4.250
j1	.t5	4.250		4.250	4.250	
j1	.t6		4.250	4.250		4.250
j1	.t7				4.250	
j1	.t9				4.250	
j1	.t10			4.250		4.250
j1	.t11				4.250	4.250
j1	.t12			4.250		

+ y12 y13 y14 y15

j1	.t1	4.250	4.250		
j1	.t3	4.250		4.250	4.250
j1	.t4		4.250		
j1	.t5			4.250	4.250
j1	.t6		4.250		4.250
j1	.t7	4.250			4.250
j1	.t8	4.250	4.250	4.250	
j1	.t9	4.250	4.250	4.250	4.250
j1	.t10		4.250	4.250	4.250
j1	.t11	4.250			
j1	.t12	4.250	4.250		

INDEX 1 = truck\_XL\_out INDEX 2 = i1

		y1	y2	y4	y6	y7
f1	.t3	0.336			0.480	
f1	.t4					0.480

f1	.t8	0.720		1.745
f1	.t10		0.720	

INDEX 1 = truck\_XL\_out INDEX 2 = i3

		y1	y2	y3	y7	y8
f1	.t1		0.582			
f1	.t2	0.720				
f1	.t4				0.388	
f1	.t5					0.388
f1	.t6	0.510				
f1	.t8	0.582				
f1	.t10			0.765		
f1	.t11	0.255				

INDEX 1 = truck\_XL\_out INDEX 2 = f1

		y1	y7	y8
airPT	.t4		4.250	
portPT	.t3	3.086		
portPT	.t12		4.250	
portFR	.t9			4.250
portFR	.t10		4.250	4.250

INDEX 1 = truck\_XL\_out INDEX 2 = airBR

		y1	y7
j1	.t1		4.250
j1	.t10	4.250	

INDEX 1 = truck\_XL\_out INDEX 2 = portBR

		y1	y6	y7	y8
j1	.t1		4.250		
j1	.t2			0.359	
j1	.t4				4.250
j1	.t5				4.250
j1	.t6	4.250			
j1	.t7				4.250

INDEX 1 = truckCOOL\_XL\_own INDEX 2 = i1

		y1	y2	y3	y4	y5
f1	.t1	0.720				
f1	.t2		0.051	1.826		
f1	.t3					0.140
f1	.t4				0.163	
f1	.t5			0.217	0.582	
f1	.t6				0.110	
f1	.t8				0.163	
f1	.t11	0.071				
	+	y6	y7	y8	y9	y10
f1	.t1			0.480	0.071	0.071
f1	.t2			1.272	0.071	0.071
f1	.t3				0.071	0.071
f1	.t4	0.097	0.109		0.071	0.071
f1	.t5				0.071	0.071
f1	.t6			0.066	0.071	0.071
f1	.t7				0.071	0.071
f1	.t8				0.071	0.071
f1	.t9				0.071	0.071
f1	.t10				0.071	0.071
f1	.t11			1.272	0.071	0.071
f1	.t12				0.071	0.071

	+	y11	y12	y13	y14	y15
f1	.t1	0.071	0.071	0.071	0.071	0.071
f1	.t2	0.071	0.071	0.071	0.071	0.071
f1	.t3	0.071	0.071	0.071	0.071	0.071
f1	.t4	0.071	0.071	0.071	0.071	0.071

f1	.t5	0.071	0.071	0.071	0.071	0.071
f1	.t6	0.071	0.071	0.071	0.071	0.071
f1	.t7	0.071	0.071	0.071	0.071	0.071
f1	.t8	0.071	0.071	0.071	0.071	0.071
f1	.t9	0.071	0.071	0.071	0.071	0.071
f1	.t10	0.071	0.071	0.071	0.071	0.071
f1	.t11	0.071	0.071	0.071	0.071	0.071
f1	.t12	0.071	0.071	0.071	0.071	0.071

INDEX 1 = truckCOOL\_XL\_own    INDEX 2 = i3

	y1	y2	y3	y4	y5
f1	.t1	0.163	0.255		0.582
f1	.t3		3.102		
f1	.t4			1.301	
f1	.t6				0.468
f1	.t7		0.033		
f1	.t9				0.438
f1	.t10	1.745			
f1	.t11	0.765			
f1	.t12	0.031		0.044	
+	y6	y7	y8		
f1	.t2		0.388		
f1	.t5		1.163		
f1	.t6		0.234		
f1	.t8	0.388	1.163		
f1	.t9		0.186		

INDEX 1 = truckCOOL\_XL\_own    INDEX 2 = f1

	y1	y2	y3	y4	y5
airPT	.t3	4.250			
airFR	.t1	4.250			
portPT	.t1		4.250		4.250
portPT	.t2	4.250		4.250	
portPT	.t3				4.250
portPT	.t4		4.250		
portPT	.t5	4.250	4.250	4.250	
portPT	.t6		4.250		
portPT	.t7		4.250	4.250	
portPT	.t8		4.250		4.250
portPT	.t9	4.250	4.250		
portPT	.t11	4.250	4.250	4.250	
portPT	.t12	4.250			4.250
portFR	.t5	4.250			
portFR	.t7	4.250			
portFR	.t8	4.250			
portFR	.t9	4.250			
+	y6	y7	y8		
airPT	.t1		4.250		
airPT	.t2	4.250			
portPT	.t1	4.250	4.250		
portPT	.t3	4.250			
portPT	.t6	4.250			
portPT	.t7	4.250			
portPT	.t8		4.250		
portPT	.t9	4.250			
portPT	.t11	4.250			
portFR	.t3	4.250			
portFR	.t5	4.250	4.250		
portFR	.t8	4.250			
portFR	.t10	4.250			
portFR	.t12	4.250	4.250		

INDEX 1 = truckCOOL\_XL\_own    INDEX 2 = airPT

	y2	y6
portPT	.t9	4.250
portFR	.t3	4.250

INDEX 1 = truckCOOL\_XL\_own    INDEX 2 = airBR



	y1	y3	y4	y8
j1 .t2			4.250	
j1 .t3	3.086			
j1 .t5		4.250		
j1 .t12			4.250	
portBR.t1				4.250

INDEX 1 = truckCOOL\_XL\_own INDEX 2 = portBR

	y1	y2	y3	y4	y5
j1 .t1		4.250	4.250	4.250	
j1 .t2		4.250	4.250		
j1 .t3		4.250		4.250	
j1 .t4	4.250	4.250		4.250	4.250
j1 .t5				4.250	4.250
j1 .t6		4.250			4.250
j1 .t7	4.250	4.250			
j1 .t8	4.250	4.250	4.250		
j1 .t9	4.250	4.250	4.250		4.250
j1 .t10		4.250	4.250		
j1 .t11	4.250				4.250
j1 .t12			4.250		
airBR .t2				4.250	
airBR .t10				4.250	

	+ y6	y7	y8	y9	y10
j1 .t1					4.250
j1 .t2				4.250	4.250
j1 .t3					4.250
j1 .t6					4.250
j1 .t7	4.250			4.250	
j1 .t8	4.250	4.250	4.250	4.250	4.250
j1 .t9	4.250	4.250	4.250	4.250	
j1 .t10	4.250	4.250	4.250		4.250
j1 .t11	4.250	4.250	4.250	4.250	
j1 .t12	4.250	4.250	4.250		4.250
airBR .t2	1.356				

	+ y11	y12	y13	y14	y15
j1 .t1				4.250	4.250
j1 .t2		4.250	4.250	4.250	4.250
j1 .t3			4.250		
j1 .t4		4.250		4.250	4.250
j1 .t5	4.250	4.250	4.250		
j1 .t6		4.250		4.250	
j1 .t7	4.250		4.250	4.250	
j1 .t8	4.250				4.250
j1 .t9	4.250				
j1 .t10		4.250			
j1 .t11			4.250	4.250	4.250
j1 .t12	4.250			4.250	4.250

INDEX 1 = truckCOOL\_XL\_out INDEX 2 = i1

	y1	y2	y3	y4	y5
f1 .t1		1.745	0.071		
f1 .t2		0.227			0.163
f1 .t3			0.217	0.765	
f1 .t5				0.163	
f1 .t6	0.143			0.485	
f1 .t9	0.051				0.123
f1 .t10			0.214		

	+ y6	y7	y8
f1 .t1		0.109	
f1 .t2		1.163	0.480
f1 .t4	1.467		
f1 .t5	0.109	1.643	
f1 .t8	0.588	0.388	
f1 .t10		0.109	0.106

INDEX 1 = truckCOOL\_XL\_out INDEX 2 = i3

		y1	y2	y3	y4	y5
f1	.t1	1.745		0.765		0.163
f1	.t2	0.163				0.582
f1	.t3				0.316	
f1	.t5		1.745			
f1	.t6	1.530				
f1	.t8	0.163				
f1	.t10					0.582
f1	.t12				0.672	

		+	y7	y8
f1	.t4			0.109
f1	.t6	1.272		
f1	.t8			0.109

INDEX 1 = truckCOOL\_XL\_out INDEX 2 = f1

		y1	y7	y8
airPT	.t3			2.312
portPT	.t5			4.250
portPT	.t11		4.250	
portFR	.t2			4.250
portFR	.t6	4.250		
portFR	.t11			4.250

INDEX 1 = truckCOOL\_XL\_out INDEX 2 = airBR

		y7
j1	.t7	4.250

INDEX 1 = truckCOOL\_XL\_out INDEX 2 = portBR

		y1	y7	y8
j1	.t1			4.250
j1	.t2			4.250
j1	.t3		4.250	
j1	.t5		4.250	
j1	.t6			4.250
j1	.t12	4.250		

INDEX 1 = plane INDEX 2 = airPT

		y1	y6	y8
airBR	.t1			0.850
airBR	.t2		0.579	
airBR	.t3	0.617		

INDEX 1 = plane INDEX 2 = airFR

		y1	y6
airBR	.t1	0.850	
airBR	.t6		0.850

INDEX 1 = planeCOOL INDEX 2 = airPT

		y1	y7	y8
airBR	.t1		0.850	
airBR	.t3			0.850
airBR	.t4		0.850	
airBR	.t10	0.850		

INDEX 1 = planeCOOL INDEX 2 = airFR

		y7
airBR	.t7	0.850

INDEX 1 = boat INDEX 2 = portUS

y1

portBR.t4 0.213

INDEX 1 = boat INDEX 2 = portPT

y1

y2

y3

y4

y5

portBR.t1		0.213	0.213	0.213	0.213
portBR.t2	0.213	0.213	0.213	0.213	0.213
portBR.t3			0.213	0.213	0.213
portBR.t4		0.213	0.213	0.213	0.213
portBR.t5		0.213	0.213	0.213	0.213
portBR.t6		0.213	0.213	0.213	0.213
portBR.t7		0.213	0.213	0.213	0.213
portBR.t8			0.213	0.213	0.213
portBR.t9			0.213	0.213	0.213
portBR.t10		0.213	0.213	0.213	0.213
portBR.t11		0.213	0.213	0.213	0.213
portBR.t12	0.213	0.213	0.213	0.213	0.213

+

y6

y7

y8

y9

y10

portBR.t1				0.213	0.213
portBR.t2				0.213	0.213
portBR.t3				0.213	0.213
portBR.t4	0.213			0.213	0.213
portBR.t5				0.213	0.213
portBR.t6				0.213	0.213
portBR.t7				0.213	0.213
portBR.t8			0.213	0.213	0.213
portBR.t9				0.213	0.213
portBR.t10				0.213	0.213
portBR.t11	0.213			0.213	0.213
portBR.t12				0.213	0.213
portFR.t11		0.213			

+

y11

y12

y13

y14

y15

portBR.t1	0.213	0.213	0.213	0.213	0.213
portBR.t2	0.213	0.213	0.213	0.213	0.213
portBR.t3	0.213	0.213	0.213	0.213	0.213
portBR.t4	0.213	0.213	0.213	0.213	0.213
portBR.t5	0.213	0.213	0.213	0.213	0.213
portBR.t6	0.213	0.213	0.213	0.213	0.213
portBR.t7	0.213	0.213	0.213	0.213	0.213
portBR.t8	0.213	0.213	0.213	0.213	0.213
portBR.t9	0.213	0.213	0.213	0.213	0.213
portBR.t10	0.213	0.213	0.213	0.213	0.213
portBR.t11	0.213	0.213	0.213	0.213	0.213
portBR.t12	0.213	0.213	0.213	0.213	0.213

INDEX 1 = boat INDEX 2 = portFR

y1

y2

y6

y7

y8

portUS.t4	0.213				
portBR.t2			0.068		0.213
portBR.t3	0.058	0.213	0.213		
portBR.t5	0.213				
portBR.t6	0.213			0.213	0.213
portBR.t8		0.213	0.213	0.213	
portBR.t9	0.213				
portBR.t10				0.213	
portBR.t11				0.213	0.213

INDEX 1 = boatCOOL INDEX 2 = portUS

y7

portBR.t5 0.213

INDEX 1 = boatCOOL INDEX 2 = portPT

y1

y2

y6

y7

y8

portBR.t1			0.213		
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portBR.t2			0.213	
portBR.t3			0.213	
portBR.t4				0.213
portBR.t7			0.213	
portBR.t9		0.213	0.213	
portBR.t11	0.213			
portBR.t12			0.213	
portFR.t5				0.213
portFR.t6				0.213
portFR.t9			0.213	

INDEX 1 = boatCOOL INDEX 2 = portFR

	y1	y6	y7	y8
portUS.t5			0.213	
portBR.t5		0.213		0.213
portBR.t7	0.213			0.213
portBR.t8	0.213			
portBR.t9			0.213	0.213
portBR.t10		0.213		0.213
portBR.t12		0.213		0.213

---- 1219 VARIABLE manuf\_var\_cost.L Variable costs of manufacturing

y1 2533561.871,	y2 2531323.894,	y3 3147322.076,	y4 2663263.600
y5 2537311.783,	y6 2043423.143,	y7 1929019.090,	y8 1933563.185
y9 1930383.669,	y10 1930383.669,	y11 1930383.669,	y12 1930383.669
y13 1930383.669,	y14 1930383.669,	y15 1930383.669	

---- 1219 VARIABLE transp\_var\_cost.L Variable costs of transportation

y1 2.048400E+7,	y2 8351965.487,	y3 6145249.158,	y4 7727732.560
y5 6903306.480,	y6 1.302798E+7,	y7 2.461162E+7,	y8 2.767630E+7
y9 4538893.705,	y10 4538893.705,	y11 4538893.705,	y12 4538893.705
y13 4538893.705,	y14 4538893.705,	y15 4538893.705	

---- 1219 VARIABLE store\_var\_cost.L Variable costs of storage

y1 1.720769E+7,	y2 2.934196E+7,	y3 3.093268E+7,	y4 2.983426E+7
y5 3.078463E+7,	y6 2.515385E+7,	y7 1.368462E+7,	y8 1.061538E+7

---- 1219 VARIABLE vNPV.L = -7.62307E+8 Expected Profit

\*\*\*\* REPORT FILE SUMMARY

result /var/lib/condor/execute/dir\_3160854/result.put

EXECUTION TIME = 3.186 SECONDS 794 MB 24.9.2 r64480 LEX-LEG

USER: Small MUD - 5 User License G170411/0001AS-LNX  
University of Wisconsin-Madison, Computer Sciences Dept. DC8499  
License for teaching and research at degree granting institutions

\*\*\*\* FILE SUMMARY

Input /var/lib/condor/execute/dir\_3160854/MODEL.gms  
Output /var/lib/condor/execute/dir\_3160854/solve.out

