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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

C o m p i l a t i o n

 1 Sets

 2 i canning plants / seattle, san-diego /

 3 j markets / new-york, chicago, topeka / ;

 4

 5 Parameters

 6

 7 a(i) capacity of plant i in cases

 8 / seattle 350

 9 san-diego 600 /

 10

 11 b(j) demand at market j in cases

 12 / new-york 325

 13 chicago 300

 14 topeka 275 / ;

 15

 16 Parameter d(i,j) distance in thousands of miles New-York Chicago ;

 17

\*\*\*\* File: C:\users\scs\My Documents\gamsdir\projdir\Transport\transport.gdx

\*\*\*\* Msg : No such file or directory

 19 $gdxin transport.gdx

\*\*\*\* $510

 20 $load d

\*\*\*\* $502

 22

 23

 24 \*Table d(i,j) distance in thousands of miles

 25 \* new-york chicago topeka

 26 \* seattle 2.5 1.7 1.8

 27 \* san-diego 2.5 1.8 1.4 ;

 28

 29 Scalar f freight in dollars per case per thousand miles /90/ ;

 30

 31 Parameter c(i,j) transport cost in thousands of dollars per case ;

 32

 33 c(i,j) = f \* d(i,j) / 1000 ;

\*\*\*\* $141

 34

 35 Variables

 36 x(i,j) shipment quantities in cases

 37 z total transportation costs in thousands of dollars ;

 38

 39 Positive Variable x ;

 40

 41 Equations

 42 cost define objective function

 43 supply(i) observe supply limit at plant i

 44 demand(j) satisfy demand at market j ;

 45

 46 cost .. z =e= sum((i,j), c(i,j)\*x(i,j)) ;

 47

 48 supply(i) .. sum(j, x(i,j)) =l= a(i) ;

 49

 50 demand(j) .. sum(i, x(i,j)) =g= b(j) ;

 51

 52 Model transport /all/ ;

 53

 54 Solve transport using lp minimizing z ;

\*\*\*\* $257

 55

 56 Display x.l, x.m ;

\*\*\*\* $141

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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

Error Messages

141 Symbol declared but no values have been assigned. Check for missing

 data definition, assignment, data loading or implicit assignment

 via a solve statement.

 A wild shot: You may have spurious commas in the explanatory

 text of a declaration. Check symbol reference list.

257 Solve statement not checked because of previous errors

502 GDXIN file not open - ignore rest of line

510 Unable to open gdx file for $GDXIN

\*\*\*\* 5 ERROR(S) 0 WARNING(S)

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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

Include File Summary

 SEQ GLOBAL TYPE PARENT LOCAL FILENAME

 1 1 INPUT 0 0 C:\users\scs\My Documents\gamsdir\proj

 dir\Transport\SCS\_Transport.gms

 2 18 CALL 1 18 gdxxrw.exe transport.xls par=d rng=Dis

 tances!A1:D3 rdim=1 cdim=1 trace=3

COMPILATION TIME = 0.600 SECONDS 3 MB 25.0.2 r65346 WIN-VS8

USER: GAMS Development Corporation, USA G871201/0000CA-ANY

 Free Demo, +1 202-342-0180, support@gams.com, www.gams.com DC0000

\*\*\*\* FILE SUMMARY

Input C:\users\scs\My Documents\gamsdir\projdir\Transport\SCS\_Transport.gms

Output C:\users\scs\My Documents\gamsdir\projdir\Transport\SCS\_Transport.lst

\*\*\*\* USER ERROR(S) ENCOUNTERED