



An Introduction to GAMS with GAMS Studio: Part 2



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Outline

- Projects and Directories
- Help with GAMS and GAMS Studio
- Search and Replace
- Opening and Using GDX Files
- Reference Files
- Other Tools
 - Pin view
 - Folding
 - Navigating



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Projects and Directories



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Projects and Directories 1

- Storing files in appropriate directories is critical – GAMS needs to know where input files are located and where output files are stored
- GAMS Studio organises the files in PROJECTS using project files (*.gsp)
 - Project files can be ‘explicit’ or ‘implicit’
 - Project files can be created automatically or manually
- Projects and Directories
 - *One Project per Directory*

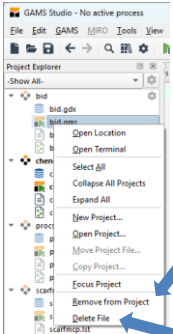
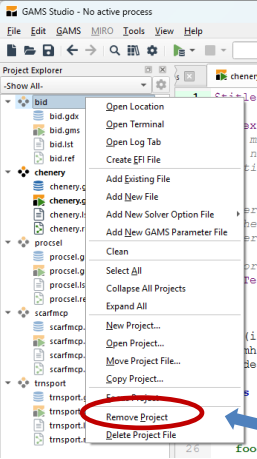


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Projects and Directories 2



Remove from Project – closes files but does **not** delete a stored file

Remove Project from Project Explorer – does **not** delete any stored files

Delete File – deletes a stored file

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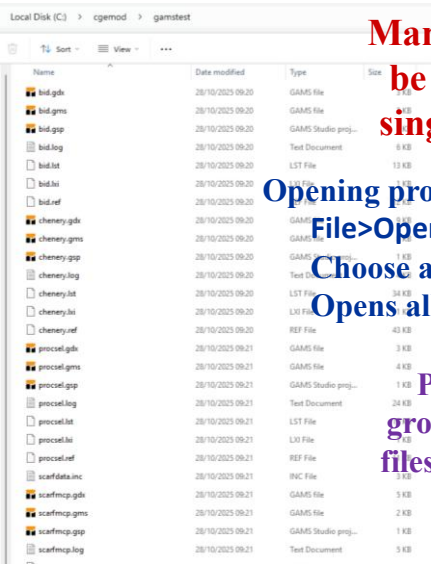
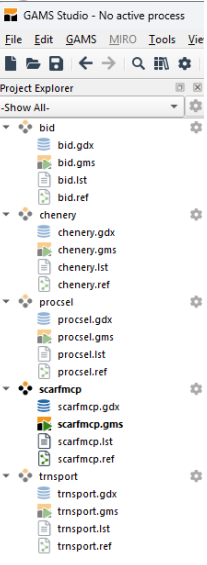
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Projects and Directories



Many projects can be included in a single directory!!

Opening projects
File>Open..
Choose any ****gms** or ****gsp**
Opens all related files

Projects and groups of related files linked by gsp files

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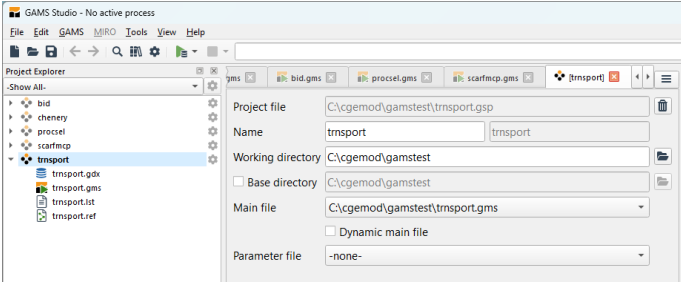
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Project Options



Active Project: project name in **BOLD**

Main File: file with **GREEN** arrowhead



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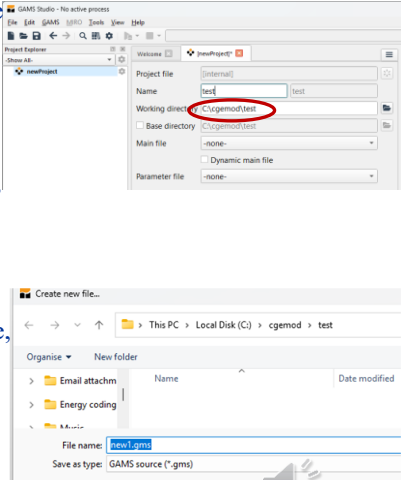
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New Project 1

- in Windows Explorer create a directory for the new project, C:\cgemod\test,
- open the Settings (F7) - on General tab choose option 'Open file in current project by default' is selected,
- choose File>New Project,
- the default name for the project is newProject,
- rename the project name as test in the editor window
- set the Working directory to C:\cgemod\test, using the BROWSE button,
- Base and Working directories have same name,
- choose File>Save – DO NOT USE SAVE AS
- choose File>New that will open a Windows Explorer window with default File name of new*.gms,
- click SAVE and new*.gms will appear in the 'test' project.



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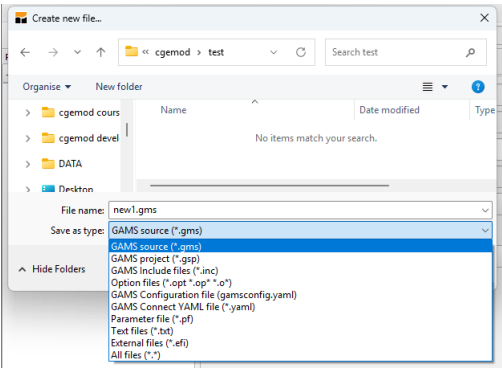
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New Project 2

Set 'Save as type' to *.gms



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GAMS Help



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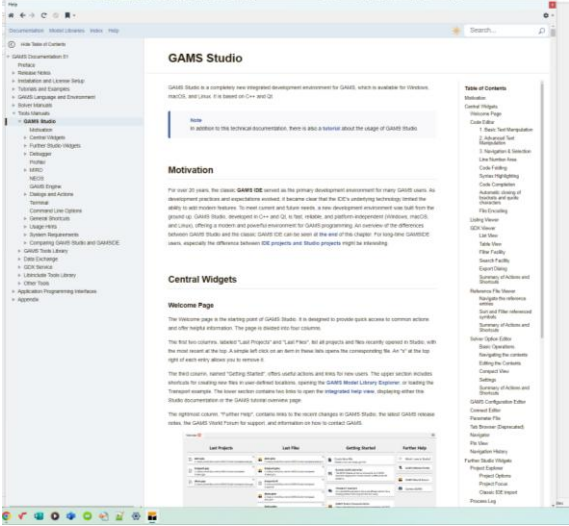
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Help with GAMS and GAMS Studio

Select: Help > GAMS Documentation, or F1, or View > Help



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Help with GAMS Studio: Short Cuts

Keyboard Shortcuts

2. Advanced Text Manipulation

Action	Shortcut	macOS	Description
Remove Line	Shift - Del		Removes the current line
Duplicate Line	Ctrl - D	Command - D	Duplicates the current line
Lowercase	Alt - Shift - L	Option - Shift - L	Toggle selection to lower case
Uppercase	Alt - Shift - U	Option - Shift - U	Toggle selection to upper case
Tab	Tab	Tab	Add spaces till next tab size
Untab	Shift - Tab	Shift - Tab	Remove spaces till previous tab size
Indent	Ctrl - I	Command - I	Indent complete line
Outdent	Ctrl - Shift - I	Command - Shift - I	Outdent complete line
Find	Ctrl - F	Command - F	Open Search & Replace window, filling search field with selected text if there is any.
Find Next	F3	F3	Jump to next search result if
Find Previous	Shift - F3	Shift - F3	Jump to previous search result

3. Navigation & Selection

Action	Shortcut	macOS	Description
Zoom In	Ctrl - + or Ctrl - = or Ctrl - Wheel Up	Command - + or Command - = or Command - Wheel Up	Zoom in
Zoom Out	Ctrl - - or Ctrl - Wheel Down	Command - - or Command - Wheel Down	Zoom out
Reset Zoom	Ctrl - 0	Command - 0	Reset zoom
Match Parentheses	Ctrl - B	Command - B	Jump to matching parenthesis

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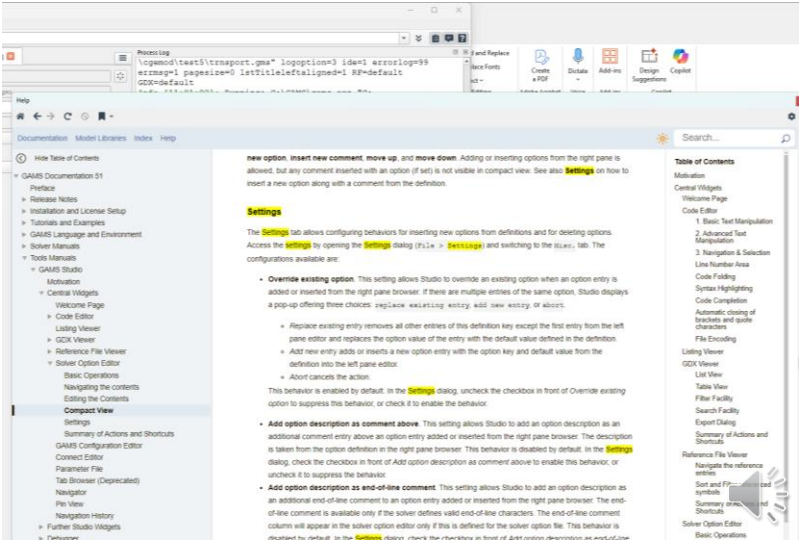
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Help with GAMS Studio: Settings



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Search & Replace



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Search and Replace

41
42 Parameter c(i,j) 'transport cost in thousands of dollars per case';
43 c(i,j) = f*d(i,j)/1000;
44
45 Variable
46 x(i,j) 'shipment quantity'
47 z 'total transportation cost'
48
49 Positive Variable x;
50
51 Equation
52 cost 'define objective function'
53 supply(i) 'observe supply at market i'
54 demand(j) 'satisfy demand at market j';
55
56 cost.. z =e= sum((i,j), c(i,j)*x(i,j));
57
58 supply(i).. sum(j, x(i,j)) =l= a(i);

Search & Replace

Search Term: cost

Replace:

☒ Case Sensitivity ☐ Use Regex ☒ Whole Words

This File

< >

Find All

4 matches.

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Search and Replace

Search & Replace

Search Term: cost

Replace:

☒ Case Sensitivity ☐ Use Regex ☐ Whole Words

This Project

< >

Find All

20 matches; 4 files searched.

Process Log

Filename	Line	
.../scott/Documents/GAMS/Studio/workspace/trnsport.gms	4	This problem finds a least
.../scott/Documents/GAMS/Studio/workspace/trnsport.gms	42	Parameter c(i,j) 'transport
.../scott/Documents/GAMS/Studio/workspace/trnsport.gms	47	... total transportation co:
.../scott/Documents/GAMS/Studio/workspace/trnsport.gms	52	cost 'define objective f
.../scott/Documents/GAMS/Studio/workspace/trnsport.gms	56	cost.. z =e= sum((i,j), c
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	7	...This problem finds a lea
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	44	...Parameter c(i,j) 'transpor
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	49	... total transportation co:
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	54	52 cost 'define obje
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	58	56 cost.. z =e= sum((i,j)
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	77	cost.. - 0.225*(seattle,ne
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	106	-0.225 cost
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	112	-0.153 cost
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	118	-0.162 cost
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	124	---- z total transportatio
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	128	1 cost
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	189	---- EQU cost
C:/Users/scott/Documents/GAMS/Studio/workspace/trnsport.lst	191	cost define objective fun

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GDX Files



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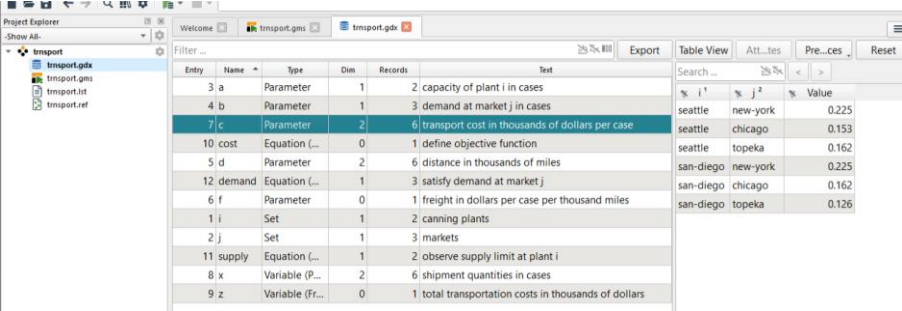
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GDX Files in Studio



Entry	Name	Type	Dim	Records	Text
3	a	Parameter	1	2	capacity of plant i in cases
4	b	Parameter	1	3	demand at market j in cases
7	c	Parameter	2	6	transport cost in thousands of dollars per case
10	cost	Equation (...)	0	1	define objective function
5	d	Parameter	2	6	distance in thousands of miles
12	demand	Equation (...)	1	3	satisfy demand at market j
6	f	Parameter	0	1	freight in dollars per case per thousand miles
1	i	Set	1	2	canning plants
2	j	Set	1	3	markets
11	supply	Equation (...)	1	2	observe supply limit at plant i
8	x	Variable (P...)	2	6	shipment quantities in cases
9	z	Variable (Fr...)	0	1	total transportation costs in thousands of dollars

	i ¹	j ²	Value
seattle	new-york		0.225
seattle	chicago		0.153
seattle	topeka		0.162
san-diego	new-york		0.225
san-diego	chicago		0.162
san-diego	topeka		0.126



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Parameters in GDX View

Filter ...

Entry	Name	Type	Dim	Records	Text
3	a	Parameter	1	2	capacity of plant i in cases
4	b	Parameter	1	3	demand at market j in cases
7	c	Parameter	2	6	transport cost in thousands of dollars per case
10	cost	Equation (...)	0	1	define objective function
5	d	Parameter	2	6	distance in thousands of miles
12	demand	Equation (...)	1	3	satisfy demand at market j
6	f	Parameter	0	1	freight in dollars per case per thousand miles
1	i	Set	1	2	canning plants
2	j	Set	1	3	markets
11	supply	Equation (...)	1	2	observe supply limit at plant i
8	x	Variable (P...)	2	6	shipment quantities in cases
9	z	Variable (Fr...)	0	1	total transportation costs in thousands of dollars

Search ...

%i ¹	%j ²	%Value	
	new-york	chicago	topeka
seattle	0.225	0.153	0.162
san-diego	0.225	0.162	0.126

Export

List View

Attributes

Preferences

Reset

Search ...

%i¹ %j² %Value

new-york chicago topeka

seattle 2.25e-01 1.53e-... 1.62e...

san-diego 2.25e-01 1.62e-... 1.26e...

Squeeze Defaults

☒ Squeeze Trailing Zeros

Format: e-format

Precision: 6

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Filtering in GDX View

Filter ...

☒ new-york

☒ chicago

☒ topeka

Select All

Invert

Deselect All

☐ Hide unselected items

Apply

Min: 0.126

Max: 0.225

☐ Exclude

Show Special Values:

☒ EPS

☒ NA

☒ +INF

☒ UNDF

☒ -INF

☒ Acronyms

Reset

Apply

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Filtering in GDX View: n-dimensions

Entry	Name	Type	Dim	Records	Text
1	i	Set	1	4	sectors
2	t	Set	1	3	tradables
3	lmh	Set	1	3	possible elasticities
4	sde	Set	1	3	other parameters
5	j	Alias	1	0	Aliased with i
6	ai0	Parameter	2	6	input coefficients
7	pdatt	Parameter	4	64	production data
8	ddatt	Parameter	3	20	demand parameters
9	tdatt	Parameter	3	18	trade parameters
10	mew	Parameter	1	3	intercept on import cost function
11	ksi	Parameter	1	3	slope of import cost function
12	gam	Parameter	1	3	intercept on export revenue function
13	alp	Parameter	1	3	slope of export revenue function
14	ynot	Parameter	1	4	demands in base year
15	sig	Parameter	1	4	elasticity of substitution capital to labor
16	thet	Parameter	1	4	price elasticity of demand
17	rho	Parameter	1	4	substitution parameter in production functions
18	del	Parameter	1	4	distribution parameter in production functions
19	efy	Parameter	1	4	efficiency parameter in production functions
20	lhar	Parameter	0	1	total surplus of labor

			light-ind	food+agr	heavy-ind	services
low	a	distr	0.915	0.944	2.6	0.8
		effic	3.83	3.24	4	1.8
	b	distr	0.276	1.034	2.6	0.77
		effic	2.551	3.39	4	1.77
medium	a	subst	0.11	0.29	0.2	0.05
		distr	0.326	0.443	0.991	0.00798
		effic	3.97	3.33	1.67	1.84
	b	subst	0.22	0.58	0.4	0.1
		distr	0.41	0.47	0.92	0.08
		effic	3.99	3.33	1.8	1.89
high	a	subst	0.45	1.15	0.4	0.2
		distr	0.456	0.483	0.917	0.23
		effic	4	3.33	1.8	1.92
	b	subst	0.93	1.15	0.8	0.4
		distr	0.484	0.483	0.769	0.344
		effic	4	3.33	1.8	1.96

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Variables in GDX View

Entry	Name	Type	Dim	Records	Text
24	x	Variable (P...)	1	4	quantity of output
25	v	Variable (P...)	1	4	value added per unit output at current prices
26	y	Variable (P...)	1	4	final consumption
27	p	Variable (P...)	1	4	prices
28	l	Variable (P...)	1	4	labor use per unit of output
29	k	Variable (P...)	1	4	capital use per unit of output

	%i	%s	Level
light-ind			112.88
food+agr			358.932
heavy-ind			182.798
services			638.179

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Format in GDX View

Process Log

Info [16:58:28]: Started: C:\GAMS\studio\studio.exe
Info [16:58:29]: GAMS license found at C:\Users\John\Documents\GAMS\gamslice.txt

Preferences

Squeeze Defaults

☐

Squeeze Trailing Zeros

☒

Format:

g-format

Precision:

6

Display format for numerical values:

g-format: The display format is chosen automatically: *f-format* for numbers closer to one and *e-format* otherwise. The value in the *Precision* spin box specifies the number of significant digits. When precision is set to *Full*, the number of digits used is the least possible such that the displayed value would convert back to the value stored in GDX. Trailing zeros do not exist when *precision=Full*.

f-format: Values are displayed in fixed format as long as appropriate. Large numbers are still displayed in scientific format. The value in the *Precision* spin box specifies the number of decimals.

e-format: Values are displayed in scientific format. The value in the *Precision* spin box specifies the number of significant digits. When precision is set to *Full*, the number of digits used is the least possible such that the displayed value would convert back to the value stored in GDX. Trailing zeros do not exist when *precision=Full*.

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Format Preferences for GDX View

Settings

General

Editor & Log

GDX Viewer

Colors

Remote

Misc.

Update

Default Settings

Symbol View:

List View

Attributes

☒ Level

☒ Marginal

☒ Lower Bound

☒ Upper Bound

☒ Scale

Preferences

☐ Squeeze Defaults

Squeeze Trailing Zeros

☒

Format:

g-format

Precision:

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Decimal Separator in Copied Data

☒ Use Studio default:

☐

☐ Follow system language:

☐

☐ Use custom character:

☐

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Outputs from GDX View

List View

i 1i 2Level

	new-york	chicago	topeka
Level			
seattle	50	300	
san-diego	275	0	

Copy (comma-separated)Ctrl+C

Copy (tab-separated)Ctrl+Shift+C

Copy Without Labels (comma-separated)

Copy Without Labels (tab-separated)

Auto Resize ColumnsCtrl+R

Select AllCtrl+A

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Exporting from GDX View

transport.gdx

ExportTable View

TextSearch ...

capacity of plant i in cases

GDX Export

Target Format:Excel

Excel File:C:\cgemod\test2\transport_export.xlsxBrowse...

Connect File:C:\cgemod\test2\transport_export.yamlBrowse...

Apply Filters☒

Hidden Attributes☐

EPS: EPSINF: INF-INF: -INFUNDEF: UNDEFNA: NA

Export	Entry	Name	Type	Dim	Records	Text
☐	3 a	Parameter	1	2	capacity of plant i in cases	
☐	4 b	Parameter	1	3	demand at market j in cases	
☐	7 c	Parameter	2	6	transport cost in thousands of dollars per case	
☐	10 cost	Equation (=e=)	0	1	define objective function	
☐	5 d	Parameter	2	6	distance in thousands of miles	
☐	12 demand	Equation (=g=)	1	3	satisfy demand at market j	
☐	6 f	Parameter	0	1	freight in dollars per case per thousand miles	
☐	1 i	Set	1	2	canning plants	
☐	2 j	Set	1	3	markets	
☐	11 supply	Equation (=l=)	1	2	observe supply limit at plant i	
☐	8 x	Variable (Positive)	2	6	shipment quantities in cases	
☐	9 z	Variable (Free)	0	1	total transportation costs in thousands of dollars	

Select AllDeselect AllExportCancel

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Reference Files



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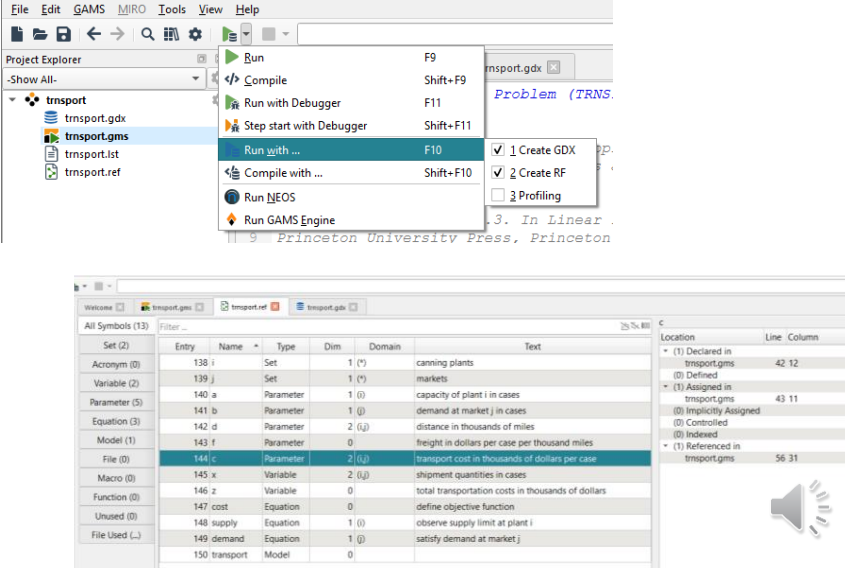
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Reference Files



The screenshot displays the GAMS Studio interface. The 'Run' menu is open, showing options like 'Run', 'Compile', 'Run with Debugger', and 'Run with NEOS'. The 'All Symbols' table is visible, listing various symbols and their properties. A table with 5 columns (Entry, Name, Type, Dim, Domain, Text) is shown below the table. The table contains 15 rows of data, including sets, parameters, equations, and models.

Entry	Name	Type	Dim	Domain	Text
138	i	Set	1 (*)		canning plants
139	j	Set	1 (*)		markets
140	a	Parameter	1 (i)		capacity of plant i in cases
141	b	Parameter	1 (j)		demand at market j in cases
142	d	Parameter	2 (i,j)		distance in thousands of miles
143	f	Parameter	0		freight in dollars per case per thousand miles
144	c	Parameter	2 (i,j)		transport cost in thousands of dollars per case
145	x	Variable	2 (i,j)		shipment quantities in cases
146	z	Variable	0		total transportation costs in thousands of dollars
147	cost	Equation	0		define objective function
148	supply	Equation	1 (i)		observe supply limit at plant i
149	demand	Equation	1 (j)		satisfy demand at market j
150	transport	Model	0		

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Reference Files

glsb_CC_5.gmsglsb_CC_5.lstglsb_CC_5.refgamsconfig.yaml

All Symbols (868)Filter:All Columns

	Entry	Name	Dim	Domain	Text
Set (172)	147	a	1	(sac)	activity accounts
Acronym (0)	182	a_h	1	(sac)	Activities and households
Variable (142)	156	a_k_fx	1	(a)	Activities with fixed capital
Parameter (418)	155	aagg	1	(aagg)	Aggregate activity groups
Equation (115)	148	aagr	1	(a)	Agricultural activities
Model (1)	152	acns	1	(a)	Construction activities
File (10)	225	acx	2	(a,r)	activities purchased domestically
Function (1)	226	acxn	2	(a,r)	activities NOT purchased domestically
Unused (59)	150	afd	1	(a)	Food activities
File Used (10)	151	aind	1	(a)	Industrial activities
	193	aleon	1	(a)	activities with Leontief top level prodn function
	149	anat	1	(a)	Natural resource activities
	241	ap	1		Aliased with a
	191	aqx	2	(a,r)	Activities and regions with CES fn at Level 1
	192	aqxn	2	(a,r)	Activities and regions with Leontief fn at Level 1
	154	aser	1	(a)	Service activities
	153	auti	1	(a)	Utility activities
	136	c	1	(sac)	commodity accounts
	144	cagg	1	(cagg)	Set of commodity groups for reports

LocationLineCo

(1) Declared in

glsb_CC_5.gms2583

(1) Defined in

glsb_CC_data_load.inc8910

(0) Assigned

(0) Implicitly Assigned

(549) Controlled in

(1610) Referenced in

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Other Tools

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PIN View

“Studio provides a Pin View to carry a clone of a selected tab. This allows user to have two file contents visible at the same time”

GAMS Studio documentation

- Uses include viewing
 - programme file (*.gms) & reference file (*.ref)
 - programme file (*.gms) & related file
 - alternative files, e.g., 2 INCLUDE files

Using PIN View

1. Select the file to PIN
2. Menu: View>PIN Right or PIN Below
3. Select the file to be viewing in the ‘main’ window

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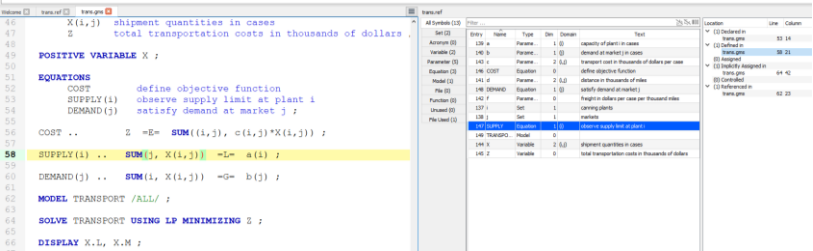
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PIN View (Right)

programme file (trans.gms) & reference file (trans.ref)



Using the reference file to find symbol in the programme file

In the reference file

1. Select the symbol type in the left panel for the *.ref file
2. Select the symbol in the middle panel for the *.ref file
3. Select the attribute for the symbol in the right panel for the *.ref file

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Pin View (Below)

trans.ref

```
46 X(i,j) shipment quantities in cases
47 Z total transportation costs in thousands of dollars ;
48
49 POSITIVE VARIABLE X ;
50
51 EQUATIONS
52 COST define objective function
53 SUPPLY(i) observe supply limit at plant i
54 DEMAND(j) satisfy demand at market j ;
55
56 COST .. Z =E= SUM((i,j), c(i,j)*X(i,j)) ;
57
58 SUPPLY(i) .. SUM(j, X(i,j)) =L= a(i) ;
59
60 DEMAND(j) .. SUM(i, X(i,j)) =G= b(j) ;
61
62 MODEL TRANSPORT /ALL/ ;
63
64 SOLVE TRANSPORT USING LP MINIMIZING Z ;
65
66 DISPLAY X..L, X..M ;
```

trans.ref

All Symbols (15)	File	Entry	Name	Type	Dim	Domain	Text	Location	Line	Column
Set (2)		138	a	Param.	1	(i)	capacity of plant i in cases	trans.gns	54	34
Variable (2)		140	b	Param.	1	(j)	demand at market j in cases	trans.gns	56	21
Parameter (3)		142	c	Param.	2	(i,j)	transport cost in thousands of dollars per case	trans.gns	54	42
Equation (2)		146	COST	Equation	0		define objective function	trans.gns	52	
Model (1)		141	d	Param.	2	(i,j)	distance in thousands of miles	trans.gns	62	23
File (2)		146	DEMAND	Equation	1	(j)	satisfy demand at market j	trans.gns	54	42
Function (2)		142	f	Param.	0		freight in dollars per case per thousand miles	trans.gns	62	23
Unused (2)		137	i	Set	1		covering plants			

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Pin View (Right) – Large Model

alg_2_parms.ref

```
153
154 ac(c) Shift parameter for Armington CES fu
155 delta(c) Share parameter for Armington CES fu
156 rhoc(c) Elasticity parameter for Armington C
157
158 ;
159
160 * ### Assignments
161
162 QM0(c) = (SAM("row",c) + SAM("imptax",c))/PM0
163
164 QQ0(c) = QD0(c) + QM0(c) ;
165
166 PMW0(c)$QM0(c)
167 = (SAM("row",c)/ER0)/QM0(c) ;
168
169
170
171 * ## Parameters for Armington/CES functions
172
173 rhoc(c)$cx(c) AND cm(c) = (1/ELASTC(c,"sigma"))
174
175 delta(c)$cd(c) AND cm(c)
176 = (PM0(c)*QM0(c)**(rhoc(c)+1))
177 / (PM0(c)*QM0(c)**(rhoc(c)+1) + PD
178
179 ac(c)$cd(c) AND cm(c)
180 = QQ0(c)/(delta(c)*QM0(c)**(-rhoc(c)
181 + (1-delta(c))*QD0(c)**(-rhoc(c)
182
```

alg_2_parms.ref

All Symbols (242)	File	Entry	Name	Type	Dim	Domain	Text	Location	Line	Column
Set (137)		148	a	Set	1	(i)	Activities	alg_2_parms.ref	154	4
Variable (117)		158	ac	Set	1	(c)	Aggregate activity group	alg_2_parms.ref	154	21
Parameter (240)		148	ac	Set	1	(i)	Agricultural activities	alg_2_parms.ref	154	21
Equation (181)		224	ac	Set	1		Allowed with ac	alg_2_parms.ref	154	21
Model (1)		15	ac	Function	0		Allocation	alg_2_parms.ref	154	21
File (2)		247	ABSORP	Variable	0		Absorption	alg_2_parms.ref	154	21
Function (2)		153	ABSORP	Param.	0		Absorption	alg_2_parms.ref	154	21
Unused (157)		869	ABSORP2	Equation	0		Absorption	alg_2_parms.ref	154	21
File Used (5)		153	ac	Variable	1	(c)	Shift parameter for CES	alg_2_parms.ref	154	21
		202	act	Set	1	(i)	Activities with 127 types	alg_2_parms.ref	154	21
		203	actm	Set	1	(i)	Activities without CES fu	alg_2_parms.ref	154	21
		154	acm	Set	1	(i)	Construction Activities	alg_2_parms.ref	154	21
		129	acm	Set	1		Allowed with acm	alg_2_parms.ref	154	21
		806	ACTOUT	Equation	2	(i,j)	Domestic activity output	alg_2_parms.ref	154	21
		807	ACTOUTOC	Equation	2	(i,j)	POC for domestic activity	alg_2_parms.ref	154	21
		389	adfac	Param.	2	(i,j)	Shift parameter for facts	alg_2_parms.ref	154	21
		636	ADPD	Variable	2	(i,j)	Shift parameter for facts	alg_2_parms.ref	154	21
		373	ADPD	Param.	2	(i,j)	Shift parameter for facts	alg_2_parms.ref	154	21
		208	adres	Set	1		Set for adpter results	alg_2_parms.ref	154	21
		640	ADVA	Variable	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		376	ADVA2	Param.	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		386	adva21	Param.	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		641	ADVA22	Variable	0		Scaling Factor for Shift p	alg_2_parms.ref	154	21
		371	ADVA23	Param.	0		Scaling Factor for Shift p	alg_2_parms.ref	154	21
		384	adva3	Param.	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		766	ADVADEF	Equation	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		633	ADVA	Variable	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		367	ADVA	Param.	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		376	adva1	Param.	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21
		634	ADVA21	Variable	0		Scaling Factor for Shift p	alg_2_parms.ref	154	21
		368	ADVA22	Param.	0		Scaling Factor for Shift p	alg_2_parms.ref	154	21
		374	adva3	Param.	1	(i)	Shift parameter for CES	alg_2_parms.ref	154	21

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Folding Text



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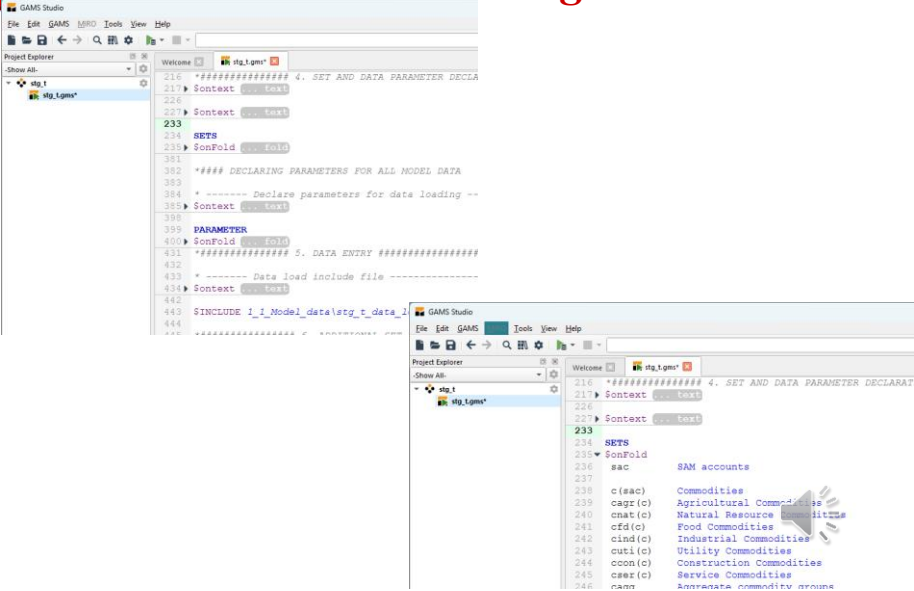
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Folding/Unfolding Text



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Navigating Files



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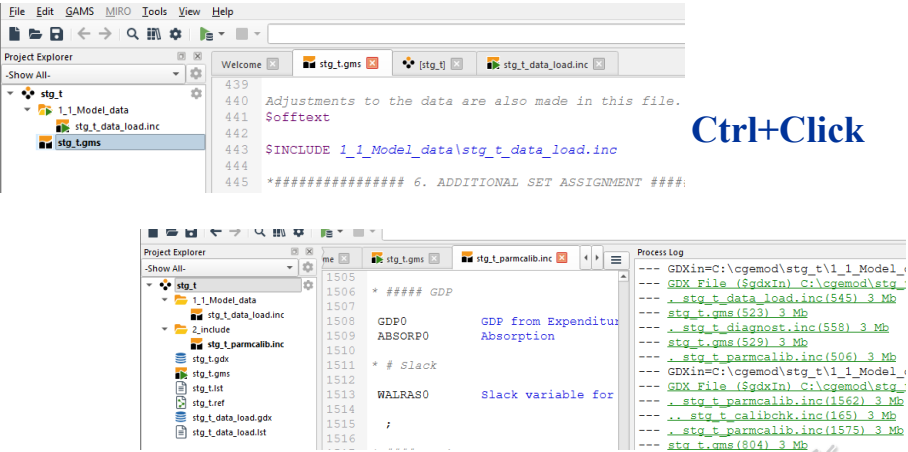
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Assessing Files



The screenshot displays the GAMS Studio environment. The top menu bar includes File, Edit, GAMS, MIRO, Tools, View, and Help. The Project Explorer on the left shows a tree structure with folders like '1_1_Model_data' and files such as 'stg_t_data_load.inc' and 'stg_t.gms'. The main editor window shows the content of 'stg_t.gms', which includes a comment about data adjustments, a \$INCLUDE statement for '1_1_Model_data\stg_t_data_load.inc', and a section for additional set assignments. A blue text overlay 'Ctrl+Click' is positioned near the \$INCLUDE line. The bottom right corner shows a Process Log window with detailed file loading information, including file paths and sizes.

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The End



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