

## **GAMS STUDIO**

## INTEGRATED DEVELOPMENT ENVIRONMENT

GAMS Studio is a completely new integrated development environment for GAMS that is available for Windows, Mac OS X, and Linux. GAMS Studio development follows an agile methodology, so it was released at a very early stage last year to encourage users to weigh in and help prioritize future development directions.

Although still under development, GAMS Studio already delivers a combination of new elements and features found in the classic GAMS IDE:

- A modern code editor to write GAMS models (including basic syntax coloring, block edit mode, bookmarks)
- Customized execution of GAMS models supported by an interactive and intuitive parameter editor
- The output panel shows the GAMS log, i.e. the progress of the GAMS run
- The listing viewer (including a tree view to navigate through the file) allows inspection of the output file
- The GDX viewer allows you to explore the content of your GDX files, starting with the symbol table and continuing to a view of the actual data that includes tools for sorting, filtering, and reshaping
- The reference file viewer helps to navigate the source code of GAMS models by pointing to the declaration, definition, assignment, and use of all user symbols
- The project explorer manages different projects in one session
- The integrated help system makes it easier to find additional information
- The solver option editor offers an interactive way to create solver option files

Join our Community

- www.gams.com/community
- www.youtube.com/GAMSlessons
- (f) www.facebook.com/GAMSofficial



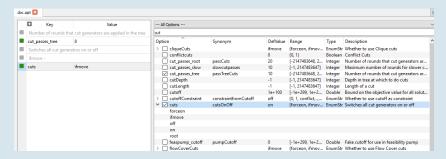
GAMS Studio is under active development by a dedicated team. New features are added to Studio with every release.

In GAMS Studio (Version 0.12.1) we added a first, basic version of a **Table View to the GDX Viewer**. For multi-dimensional symbols, the Table View offers an alternative to the default list view. In addition, it is now possible to hide specific value columns for variables and equations, allowing a sharper focus on the information of current interest. In the latest versions this feature was improved further, for example, to allow drag & drop functionality to customize your view on the data.

The solver option editor was added with Studio 0.12.3. It is used to view and edit solver-specific option files and provides a browser of solver option definitions which can be displayed in groups or be filtered by names. Options can be directly added into or deleted from the editor interactively. Also, the help system to learn more about the various options is nicely integrated.

indus8	39.gms 🗵	indus89.lst		indus89.re	f 🗵 indus89.gdx 🗵																=
Entry	Name	Type	Dim	Records	Text	^		basmati	irri	cotton	rab-fod	gram	maize	mus+rap	kha-fod	sc-mill	wheat	orchard	potatoes	onions	chilli
6	cq	Set	- 1	18	crop and livestock pr		nwfp				47	132	78	52	14	143	224	27	8	6	
162	croparea	Parameter	2	114	cropped area 1988 (0		l														
19	dc	Set	- 1	6	characteristics of can		pmw	25	29	270	158	389		27	328	100	1168	93	13	10	1
130	demand	Parameter	2	97	market demand by z		pcw	396	277	3820	1174	746	41	275	1332	722	6324	300	51	40	5
254	demnat	Equation	2	131	provincial demand b	psw	391	42	614	675	218	51	41	698	495	2688	242	30	24	33	
255	demnatn	Equation	2	0	zonal demand balan		P3														
75	dep1	Parameter	3	162	depth to water table		prw	1189	272	78	506	233	9	42	374	79	2141	56	19	15	21
76	dep2	Parameter	3	120	depth to water table		scwn		19	743	131	58		63	72	169	1004	49	9	7	10
77	depth	Parameter	2	516	depth to groundwat																
278	divcnIsea	Equation	2	86	canal diversion by se		srwn		951	13	117	100		124	4	24	590	7	14	11	15
185	divnwfp	Parameter	1	12	monthy diversion to		scws		196	758	137	22		25	59	238	921	103	- 11	8	12
73	divpost	Parameter	2	639	average(1976-77 to 1		srws		325		30	38		13	7	111	101	41		3	
277	divsea	Equation	1	2	total canal diversions		211112		323	41	30	30		13	- /	- 1111	101	41	4	3	4
82	drc	Parameter	0	- 1	run-off portion of rai																
116	ecnsdwtpr	Parameter	3	35	prices of seed(rs per																
78	efr	Parameter	2	508	effective rainfall in feet																
146	efrz	Parameter	2	107	effective rain by acz																
133	elast	Parameter	- 1	13	elasticity of demand																
195	emisc	Parameter	- 1	7	economic miscelleni																
198	emiscct	Parameter	1	15	economic water char																

**GDX Table Viewer** 



**Solver Option Editor** 

You can find a full list of new features in GAMS Studio (Version 0.13.0) here: gams.com/studio-features

## FIND OUT MORE ABOUT GAMS STUDIO

- An overview of what is included in GAMS Studio can be found in our documentation:

  aams.com/studio
- Take a look at our YouTube Video to get a first impression on how to work with GAMS Studio: youtu.be/p1D86dpyFfY
- Users can contribute directly or build on top of GAMS Studio, since it is open source under GNU GPL license:
   github.com/GAMS-dev/studio
- Give it a try! GAMS Studio is integrated with the latest version of GAMS and available for download at: gams.com/download
- We encourage your feedback about GAMS Studio. To suggest additional features or provide comments, please contact: studio@gams.com