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Memo CP-E/099

Date:August 2 2006To:DistributionFrom:OTSUKA Naohiko, SUZUKI Ryusuke, ARAI KojiSubject:New version of JCPRG digitizer (GSYS2)

A new version of the JCPRG digitizing software based on java, GSYS2 (GSYS Ver.2) becomes available at the JCPRG website. It should work in computers where the Java Runtime Environment is executable (Windows, Linux, FreeBSD, Macintosh etc.).

Install and uninstall:

- 1) Go to <u>http://java.com/</u> and install Java Runtime Environment (JRE) Version 1.4 or later (Maybe it has been already installed in your computer).
- 2) Go to http://jcprg.hucc.hokudai.ac.jp/gsys/ver2/gsys-e.html and get "Gsys2.jar" (83 kb).
- 3) Double click "Gsys2.jar". Then the "Start up window" comes.
- 4) If you want to uninstall the software, delete "Gsys2.jar".

What's new?

- 1) Users can *load* numerical data into the system and put them on the image. It enables us to refine numerical data (move, add and delete symbols).
- 2) Various new options are offered, e.g. output format (number of digits, fixed or floating point etc.). Users can save their preference in your property file.
- 3) Lower (upper) error bar automatically appears when users click the upper (lower) side of error bars. This helps user to catch the central position of symbols certainly.

Distribution:

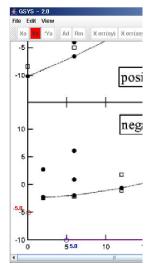
S. Babykina, CAJaD	J.H. Chang, KAERI	M. Chiba, JCPRG	F.E. Chukreev, CAJaD
S. Dunaeva, IAEA-NDS	Z.G. Ge, CNDC	O. Gritzay, KINR	A. Hasegawa, JAEA
H. Henriksson, NEA-DB	A. Kaltchenko, KINR	J. Katakura, JAEA	K. Katō, JCPRG
Y.O. Lee, KAERI	S. Maev, CJD	V.N. Manokhin, CJD	V. McLane, NNDC
A. Mengoni IAEA-NDS	M. Mikhaylyukova, CJD	C. Nordborg, NEA-DB	P. Obložinský, NNDC
Y. Ohbayasi, JCPRG	A. Ohnishi, JCPRG	N. Otuka, JCPRG	V. Pronyaev, CJD
D. Rochman, NNDC	O. Schwerer, IAEA-NDS	S. Tákacs, ATOMKI	S. Taova, VNIIEF
T. Tárkányi, ATOMKI	V. Varlamov, CDFE	M. Vlasov, KINR	M. Wirtz, IAEA-NDS
H.W. Yu, CNDC	V. Zerkin, IAEA-NDS	Y.X. Zhuang, CNDC	EXFOR, NEA-DB

Digitizing by GSYS2

File	Edit View		
Opt	en Image File	Ctrl-O	X er
Input Numerical Data		Ctrl-I	
Out	put Numerical Data	Ctrl-S	
Exit	t	Ctrl-Q	

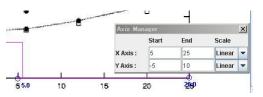
1) Get image

Choose "Open Image File" and zoom in the image file by "+" key as large as possible.



2) Set x- and y- axes

Click "Xa" and choose two points from x-axis of the image. Similarly click "Ya" and choose two points from y-axis of the image.

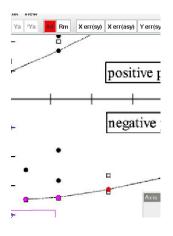


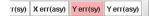
3) Give values on axes and scale

Give values of chosen points and scale of axes in the "Axis Manager" window.

4) Mark symbols

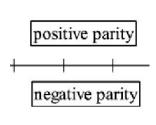
Click "Ad" and mark symbols you want to digitize.

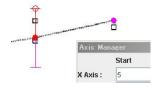




5) Add error bars to symbols

Click "Y err (sy)", focus the symbol to which you want to add an error bar, and choose one side of the error bar. "F7" and "F8" keys are useful when you want to change focused symbol without mouse.





File	Edit View		
Ope	n Image File	Ctrl-O	X err
Inpu	t Numerical Data	Ctrl-I	
Out	out Numerical Data	Ctrl-S	
Exit		Ctrl-Q	

6) Output digitized data

Choose "Output Numerical Data", set format and do sorting.

7) Write and save digitized data.

Click "Write" and "Save" to see and save digitized data.

	Write	Save	Sort X	Sort Y	Close	
x(start)= 5.0	, x(end)= 25.0) , Scale	e: Linear 🔻	, point: [loating 🔻	, digit: 📑 decima
y(start)= -5.0	, y(end)= 10.0	, Scale	e: Linear 💌	, point: [loating 💌	, digit: 📑 decimal
	Format of Output	Data: NRDF	▼, E	rror notati	on: Relative	~
Separ	ator: Space 💌 ,	X-err positio	n: x dx y dy	👻 , Out	put Error: A	s Read 🔻
igitized by GSYS2						
ate = 2.Aug.2008						
lumber of data = 4						
et xrange[5.0, 25.						
et yrange[-5.0, 10						
	ef6ccd2dca443025f3		101-0-00106		22-42	
xis_X:3fc4a952a xis_Y:3faa3468c x y +-nt			002198800231	e2a361ed6	51405	
xis_Y:3faa3468o x y +-d			02198800230	e2a361e06	51405	
xis_Y:3faa3468o x y +-d 389E+00 -2.324E	i		02198800230	e2a361e06	1403	
xis_Y:3faa34680 x y +-d 389E+00 -2.324E 325E+00 -2.029E	/ +00 +-NEGLIGIBLE		102198800231	eza301e00	1403	