ProTools

By



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To Access the ProData Tools Main Menu:

Have PROTOOLS in your library list From a Command Line, type *menu protools* and press Enter This menu will appear

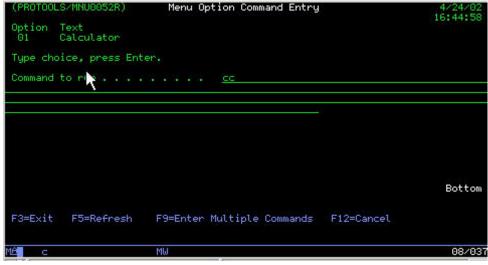
PROTOOLS	ProData	a Tools Main Menu	5/15/02 09:11:42
Select one o	of the following:		05.11.42
Gener	al System Tasks	Programm	er Productivity
03. Send eMa 04. Send Usa 05. View PC 06. Work Wit	ed Menu System 📉	26. Save/Restor 27. Scan Message	Source Member ber al File e Library List e Local Data Area e File e Cross Reference
Selection or	command	32. Create MI P	ob (see doc in source) b (see doc in source) Bottor
===> F3=Exit	F4=Prompt	F5=Refresh	F12=Previous
I J-CXIC	14-riompc	1 J-Kei Lesti	112-FI CVIOUS
lA <mark>s</mark> b	MW		21/00

To see the commands behind the options:

Have PROTOOLS in your library list From a Command Line, type *chgmenu protools* and press Enter This screen will appear

PROTOOLS	Title Of Me ProData Tools Ma		5/15/02 9:15:15
Select one of the followi	ing:		
Option Headin General System Tas		Option Heading Programmer Productivity	
1 Calculator 2 File Based Menu Syste 3 Send eMail Message 4 Send User Break Messa 5 Yiew PC Document On F 6 Work With Group Jobs 7 Zip/UnZip Stream File	23 age 24 as/400 25 26	Nest CL Program Execute CL Source Member Display Member Sort Physical File Save/Restore Library List Save/Restore Local Data Area Scan Message File Program/File Cross Reference	
	<u>31</u> 32 33	User Index Service Program Create MI Program (MI Compil Interrupt Job (see doc in so	
F3=Exit F4=Enter Command	l(s) F5=Refresh F	9=Edit Authorization F12=Pre	vious
l≙ <mark>b</mark> M	tW		05/002

Position the cursor on any line with an option and press F4 For example, position the cursor on "Calculator" and press F4 This screen will appear



CC is the command used to call the calculator.

File Based Menu System

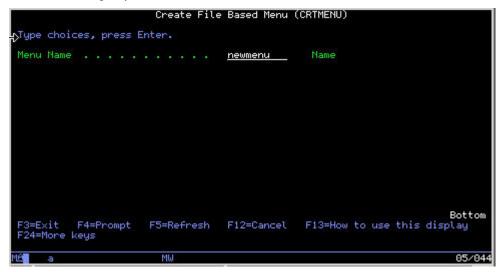
This is the easiest to use menu system ever written. It is file based, meaning all the menu options are stored in a physical file of your choice. Nothing to compile, nothing to go wrong.

To access this menu, with Protools in the library list, type *menu* on the command line.



From this menu you can easily perform all the functions necessary to create and maintain all your menus.

Option 1 - Create Menu - Brings up the screen below



Fill in the name of the new menu and Press Enter

NEWMENU	Title Of Menu	4/25/02 10:36:46
Select o	ne of the following: Option Heading Option Heading	
F3=Exit	F4=Enter Command(s) F5=Refresh F9=Edit Authorization F	More F12=Previous
MÊ a	MW	05/002

To create a menu, just follow these steps.

Key in Title of Menu.

Type Column Headings. Put a "|" in the first position of any line that you want to be a column heading. They will not show on the completed menu.

Key an option number in a two position field and the name of the option in the following field.

Position the cursor on any line with an option and press F4.

Enter the command to be processed on the ensuing screen and press Enter.

Repeat the above steps until the menu is completed.

Press F3 when finished and the menu is ready to use.

Use option 3 on the File Based Menu to test, or call separately.

In addition, authority can be added to each option. Position the cursor on an option and Press F9 to edit option authority.

Option 2 - Change Menu - Brings up a screen to enter an existing menu. Follow the above steps to change the menu.

Option 3 - Execute Menu - Brings up a screen to enter a menu name. A Menu may also be accessed with the command *menu*, followed by an existing menu name.

Option 4 - Execute CL Source Member - This option is on the FBM System Menu because it is part of the FBM System. This is the way Multiple Commands are executed when pressing an F9 from the "Menu Option Command Entry" Screen. When F9 is pressed, a member is dynamically created in QMNUCL and the command EXECLSRC *LIBL/QMNUCL MBR?????? is built, which is then executed when the menu option is selected.

Option 6 - Executes a menu in single column mode.

Options 80,81,82,90 - Self explanatory.

EMAIL from Green Screen and Batch

We use this little utility a lot. It has a hundred uses. And just like the title implies, you can use it interactively or from a batch program. Just fill in the parameters on the command, and like magic, the email will be sent. Neat!!! The command....

Send eMa	il Message (SN	DEMAIL)		
Type choices, press Enter.				
e-Mail Address of Sender				
Name of Sender				
e-Mail Address of Recipient				
Name of Recipient				
Subject				
Message to the transfer of the term				
Attachments				
+ for more values				
F3=Exit F4=Prompt F5=Refresh F24=More keys	F12=Cancel	F13=How to u	se this d	Bottom display
MA n a MW				05/037

ZIP/UNZIP FILES

ZIP (Zip Stream File) The ZIP tool is a compression tool that combines multiple files into a single JAR archive file. JAR is a general-purpose archiving and compression tool, based on ZIP and the ZLIB compression format.

Zip Stream File(s) Command

	Zi Type choices, press Enter. Stream File	ues c
	F3=Exit F4=Prompt F5=Refr F24=More keys	Bottom resh F12=Cancel F13=How to use this display
Parameters Stream Files(s)	™⊇ ⊂ Type Char(256) 10x	Description Contains the name and path of the stream files you wish to include in Zipped file. This a 256 character field. Allowing 10 entries.
Zipped Files	Char(256)	Contains the name and path of the Zipped file.

Zip Stream File(s) Command The UNZIP tool is a decompression tool that extracts multiple files from a single JAR archive file. JAR is a general-purpose archiving and compression tool, based on ZIP and the ZLIB compression format.

Zip Stream File(s) (ZIP) Type choices, press Enter. Stream File + for more values Directory/Zip File R Bottom F12=Cancel F4=Prompt F5=Refresh F13=How to use this display Exit 4=More keys 05/037 **Parameters** Type Description Zipped Stream Files(s) Char(256) Contains the name and path of the Zipped stream file. This is a 256 character field.

UnZip Stream File(s) Command

UnZip To DirectoryChar(256)Contains the Path or Directory where you wish the UnZipped files
to reside. This is a 256 character field.

Program File Cross Reference

Do you need to know where all the files/data areas in your system are used? This utility will show you this information for an individual program, a group of programs or all the programs in a library.

The command										
		Files/Programs Cross Reference (PGMXREF)								
	Type cho	ices, press	Enter.							
	Program Librar			*LIBL		generic*, *LIBL, *(
			k							
	F3=Exit F24=More	F4=Prompt keys	F5=Refresh	F12=Cancel	F13=Hou	to use f	Bo this displa	ttom Y		

The results

5/01/02	FILES/PROGRAMS	CROSS REFE	RENCE PA	GE 8
OBJECT	LIBRARY	PROGRAM	LIBRARY	USAGE
GLLSMM03	LCLIBOBJ	GL0050	LCLIBOBJ	UPDATE/ADD
		GL2005	LCLIBOBJ	INPUT
2		GL2005LC	LCLIBOBJ	INPUT
GLLSMM05	LCLIBOBJ	GL3000	LCLIBOBJ	UPDATE
		GL3001	LCLIBOBJ	UPDATE/ADD
		GL3002	LCLIBOBJ	UPDATE/ADD
GLLSMM06		GLC2007P	LCLIBOBJ	NOT SPECIFIED
		GLC2008P	LCLIBOBJ	NOT SPECIFIED
		GLC2050P	LCLIBOBJ	NOT SPECIFIED
		GLC5006P	LCLIBOBJ	NOT SPECIFIED
		GL0005	LCLIBOBJ	INPUT
		GL0010	LCLIBOBJ	UPDATE
		GL0012	LCLIBOBJ	UPDATE

INTERRUPT JOB

This nifty little utility uses the System request function to break into an interactive job. Why would you want to do this you say? What if you are calling a command/program and it bombs. Wouldn't you like to put it in debug mode right there? Now you can do it.

Just hit the System Request key, or Shift/Esc on your PC. Type in **5 QCMD I** and Enter. This will bring up the command entry screen and you can enter your debug command and your break points.

You will find many uses for this utility. It allows you to execute any program or command using the System Request function.

Nest CL SOURCE

						Ne	es	t C	L Program v	(NESTCLP)
Type choices,	pri	es	5 F	Ent	ter					
Member name .										Name
File name Library name									*LIBL	Name Name, *LIBL
Output									*PRINT	*PRINT, *OUTFILE

Nest CL Program prints a listing of the CL source program with the nesting statements shown on the left of the spooled output.

You may also put the listing to an output file.



Work with Group Jobs



Group jobs allow you to run up to 16 distinct interactive jobs in one session; While requiring you to sign on only once. Only one group job is active at a time, the rest are suspended.

The WRKGRPJOB provides a user friendly interface for

- a) Starting Group Jobs
- b) Listing Group Jobs That Area Suspended.
- c) Transferring to another group job.
- e) Ending a suspended group job.

The WRKGRPJOB can be included as part of a set attention program to allow easy access to the command. You would have the ability to interrupt/suspend the current job, start a new group job, do the task at hand, then return to your interrupted/suspended job.

Calculator

How many times have you needed a calculator and didn't have one handy? This utility will solve that problem. You can add, subtract, multiply, divide, add a percentage to the total, total, clear the total, and post a sub-total to the tape. It will also print the tape.

you can even edit the tape and the total will be refigured. To edit the tape, position the cursor on the amount to be changed, change the amount and press "Enter". The Total will be refigured.

You can call this calculator from the command line or put in on everyone's menu. If you use the Interrupt Job tool, just hit the System Request key, or Shift/Esc on your PC. Type in **5 C I** and Enter. This will bring up the calculator for your immediate use.

Help is always available on the calculator by pressing F1.

Scan Message File

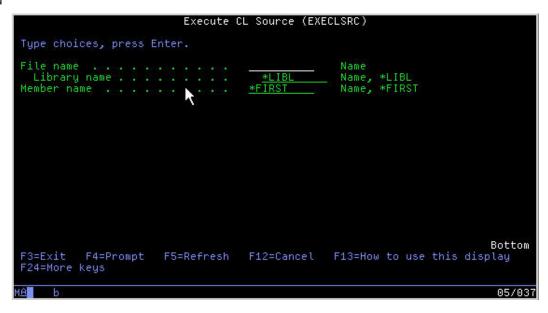
The message files we use in our programs are wonderful, but can sometimes be difficult to maintain. With this handy tool, you can scan and filter your message files. You can look for specified phrases, words, or partial words within the text of the message. It also allows you to update the message descriptions.

The command

ype cho.	ices, press En	iter.			
ind 'st	ring'				
ower Rai	nge of message nge of message file name	e Id's e d's	*FIRST *LAST	Name, *FIRST Name, *LAST Name	
Librar	y name		*LIBL	Name, *LIBL	
					Botto
3=Exit 24=More		F5=Refresh	F12=Cancell	F13=How to use this dis	olay

Execute CL SOURCE

Allows a programmer/operator the ability to Create/Run a Job Stream or a series of CL commands. This is also used in the Menu System to allow multiple commands to be executed. The command



Sort File

The command prompts the user with the selection of fields from the designated file. The user can select the fields and order (descending or ascending) for the sort they are performing. We have used this sort quite a bit, during development, to perform analysis over a data base.

The command

	Sort DB2/40	00 Physical Fi	ile (SORT)	
Type choices, press	Enter.			
File name Library name . Sort field name . Orde + fo		SUPENTRY LCLIBOBJ GLLVL3 ASC GLLVL2 ASC	Name Name, *LIBL Name ASC, DESC	
F3=Exit F4=Prompt F24=More keys	F5=Refresh	F12=Cancel	F13=How to use	Bottom this display
Mê n c	MW			05/037

Fill in the physical file name and library and press Enter to bring up the following screen.



Press Enter twice, and the command will appear with the sort fields showing. Verify that the fields are correct and press Enter.

Type choices, pres		00 Physical F	ile (SORT)	
File name		*LIBL	Name Name, *LIBL	
F3=Exit F4=Promp F24=More keys	ot F5=Refresh	F12=Cancel	F13=How to use this dis	Bottom play
Ê c	MW	-		05/03

The command will create a logical in QTEMP in the order requested, and use that logical to re-organize the physical file in the requested sequence. This utility is not intended for use in a production environment. It also is prudent not to use this utility to sort large files interactively.

Create MI Program

The create MI program command compiles an MI source member into a program. You may never need to create MI programs. But we include it here in the tool box in case you needed/wanted to make a change to a program in ProTools.

Display Member

Display Member displays source members on machines that don't have IBM's Application Development Toolkit. The source member attributes are displayed similar to SEU.

Displ	ay Member (DSF	PMBR)	
Type choices, press Enter.			
File name Library name Member name	*LIBL *FIRST	Name Name, *LIBL Name, *FIRST	
×			
F3=Exit F4=Prompt F5=Refresh F24=More keys	F12=Cancel	F13=How to use thi	Bottom s display
MÊ			05/037

Please review the display of USRIDXCPY (member) in QPROSRC (source file) in PROTOOLS (library). (User Index Prototypes Copy Book).

Display Member (DSPMBR)
ProTools Display Member
PROTOOLS/QPROSRC(USRIDXCPY)

* System Name: User Index Service Program
* Program Name: USRIDXCPY * Program Tune: /COPY
* Program Type: /COPY * Description: User Index Service Program ProtoTypes Copy Book
* Creation Date.: 04/28/2000
*
* (C)Copyright ProData Computer Services, Inc. 2002
* (c)correction and compared compared of vices, inc. 2002
* Creation Command
<pre>* (((((((N ot Applicable))))))</pre>
*
* Modification Journal
*
More
F1=Help F3=Exit F5=Refresh F8=Print F12=Cancel F19=Left F20=Right
Already at top of area.
(C)Copyright ProData Computer Services, Inc. 2002
Mê a MW 04/084

Save / Restore Library List

This is actually two commands as seen below.



There are no parameters. Just invoke the command (SAVLIBL) to save the current library list, and then when that library list is to be restored, just invoke the restore (RSTLIBL) current library list command.

Save / Restore Local Data Area

This is actually 2 commands as seen below



There are no parameters. Just invoke the command (SAVLDA) to save the Local Data Area, and then when that Local Data Area is to be restored, just invoke the restore (RSTLDA) Local Data Area command.

Send User Break Message

This command sends a break message, but with a difference. It sends a message based on user profile instead of workstation.

Send User Break Message	(USRBRKMSG)
Type choices, press Enter.	
Message text	
To user profile *	Name, *, *ALL

View PC Document

The VIEWPCD is a command that allows the ability to View PC Documents stored in the QDLS Folder.

Key in the command as follows: viewpcd doc flr **doc=Document**: Specifies the name of the PC document that is copied. The name of the document has the following format: **filename.extension**

The filename can be from 1 to 8 characters, and the extension can be from 1 to 3 characters. The extension is not required. This is a required parameter.

flr=Folder: Specifies the name of a folder containing the PC document that is copied. This parameter can also specify the name of a folder path in the form: folder1/folder2/folder3/.../folder The path name can be up to 63 characters in length. This is a required parameter.

	View PC/D	ocument On AS/400	9 (VIEWPCD)
Type choices, press E	nter.		
Document		t	Name

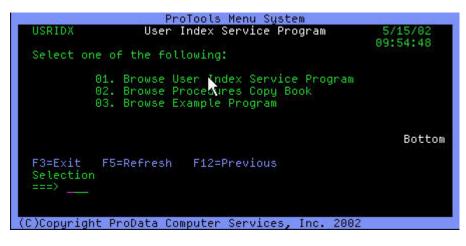
User Index Service Program

Create, Delete and Maintain User Indexes with ease. Use our service program to process user indexes. Provided is the User Index Service Program, The Procedures Copy Book, and an Example Program you can compile and execute. The Following is a list of the procedures we have included in the service program.

- Create User Index
- Retrieve User Index Attributes
 Remove User Index Entry
 - Add User Index Entry

Retrieve User Index Entry

Delete User Index



ProTools Documentation

All the utilities listed are placed on the menu so that you can easily test them, and learn how to use them. For V4R2 and above.

File Based Menu System - Utilize a file based menu system that allows the creation and maintenance of menus. Access to menu options can be authorized by User or Group profile.

Send E-Mail Message - Send Internet mail messages from green screens. This AS/400 command can be executed from a command line, submitted to batch or executed from a batch or interactive program.

Zip/UnZip Files - Zip and UnZip Stream Files. Zip/Compress files which then can be opened using PKZIP or JAR. UnZip or uncompress files that have been zipped or compressed using PKZIP or JAR.

Program File Cross Reference - Do you need to know all the programs that are using a certain file. This utility shows them all.

Interrupt Job - Uses the system request function to break into interactive jobs and display the command entry screen.

Nest CL - Nest CL conditional statements.

Work With Group Jobs - Start/Stop and Manage Group Jobs. No longer do you have to log on to multiple devices and sessions. Use WRKGRPJOB and start, end and manage Group Jobs with this easy to use utility.

Calculator - Use our Calculator/Adding Machine with an editable tape. Performs adding machine type functions and recalculates the results when you EDIT the TAPE. Print your results for a permanent copy.

Scan Message File - Scan and filter messages containing specified phrases, words or partial words.

Execute CL Source Member - Execute a CL source member without compilation. Create CL source members of multiple commands and job streams you desire to run, Then execute EXECLSRC to run them.

Sort File - Quickly sort a file. Prompting allows you to select the fields and the order for the resulting sort.

Create MI Program - Compiles source members written in MI.

Display Member - Display source members on machines without IBM's Application Development Toolkit.

Save/Restore Library List - Save your Library List into memory. Then restore the saved library list at any later point.

Save/Restore Local Data Area - Save your Local Data Area into memory. Then restore the saved Local Data Area at any later point.

Send User Break Message - Issue the USRBRKMSG command and a break message will be sent to each device the user profile is signed on to.

View PC Document - View PC text documents in a folder on your AS/400 green screen.

User Index Service Program - Create, delete and maintain User Indexes with ease. Use our service program to process user indexes. An example program is provided to show you how to use the USRIDX service program.

To Access the ProData Tools Main Menu:

Have PROTOOLS in your library list. From a Command Line, type menu protools and press Enter This menu will appear:

PROTOOLS	ProData	Tools Main Menu	5/15/02 09:11:42
Select one of	the following:		05.11.42
General	System Tasks	Programm	er Productivity
03. Send eMail 04. Send User 05. View PC Do 06. Work With 07. Zip/UnZip	Menu System Message Break Message cument On AS/400 Group Jobs Stream File(s)	27. Scan Messag 28. Program/Fil 31. User Index 32. Create MI P	Source Member ber al File e Library List e Local Data Area e File e Cross Reference
Selection or c ===>	ommand		
F3=Exit	F4=Prompt	F5=Refresh	F12=Previous
1A b	MW		21/007

To see the commands behind the options:

Have PROTOOLS in your library list. From a Command Line, type *chgmenu protools* and press Enter. This screen will appear:

elect one of the following Option Heading	Option Heading
General System Tasks	Programmer Productivity
1 <u>Calculator</u> 2 File Based Menu System 3 Send eMail Message 4 Send User Break Message 5 View PC Document On AS/ 6 Work With Group Jobs 7 Zip/UnZip Stream File(s	21Nest CL Program22Execute CL Source Member23Display Member24Sort Physical File25Save/Restore Library List26Save/Restore Local Data Area27Scan Message File28Program/File Cross Reference
	31 User Index Service Program 32 Create MI Program (MI Compiler) 33 Interrupt Job (see doc in source) More

Position the cursor on any line with an option and press F4. For example, position the cursor on "Calculator" and press F4. The following screen will appear:

Option	S/MNU0052R) Text Calculator	Menu O	ption Command Entry		4/24/02 16:44:58
Type cho	ice, press Ent	en.			
Command	to nie		<u>ec</u>		
					Bottom
F3=Exit	F5=Refresh	F9=Enter	Multiple Commands	F12=Cancel	
Mê n c		Mω			08/037

CC is the command used to call the calculator.

File Based Menu System

This is the easiest to use menu system ever written. It is file based, meaning all the menu options are stored in a physical file of your choice. Nothing to compile, nothing to go wrong.

To access this menu, with Protools in the library list, type *menu* on the command line. From this menu you can easily perform all the functions necessary to create and maintain all your menus.

Option 1 - Create Menu - Brings up the screen below

MENU	File Based	Menu System Main Menu	4/25/02
Select one of	of the following:		05.20.40
Comr	mands	Miscellaneous	
01. Create 02. Change 03. Execute 04. Execute	1enu		
06. Single (Column Window Menu		
	N	80. Work with Current Jo 81. Work with Submitted 82. Work with Printed Ou	Jobs
Selection or		90. Signoff System	Bottom
===>	r command		
F3=Exit	F4=Prompt	F5=Refresh F12	=Previous
M£ a	MW		21/007

Fill in the name of the new menu and Press Enter

		Create File	e Based Menu	(CRTMENU)		
Type cho	ices, press	Enter.				
Menu Nam	en Es de teore teore		<u>newmenu</u>	Name		
F3=Exit F24=More	F4=Prompt keys	F5=Refresh	F12=Cancel	F13=How to	use this	Bottom display
Mê l a		MW				05/044

To create a menu, just follow these steps.

NEWMENU		Title Of Menu	4/25/02 10:36:46
Select c	one of the following: Option Heading	Opti	on Heading
F3=Exit	F4=Enter Command(s)	F5=Refresh F9=Edit Autho	More rization F12=Previous
Ш́а	MW		05/00

- Key in Title of Menu
- Type Column Headings. Put a "|" in the first position of any line that you want to be a column heading. They will not show on the completed menu.
- Key an option number in a two position field and the name of the option in the following field. Position the cursor on any line with an option and press F4.
- Enter the command to be processed on the ensuing screen and press Enter. Repeat the above steps until the menu is completed.
- Press F3 when finished and the menu is ready to use.
- Use option 3 on the File Based Menu to test, or call separately.

In addition, authority can be added to each option. Position the cursor on an option and Press F9 to edit option authority.

Option 2 - Change Menu - Brings up a screen to enter an existing menu. Follow the above steps to change the menu.

Option 3 - Execute Menu - Brings up a screen to enter a menu name. A Menu may also be accessed with the command menu, followed by an existing menu name.

Option 4 - Execute CL Source Member - This option is on the FBM System Menu because it is part of the FBM System. This is the way Multiple Commands are executed when pressing an F9 from the Menu Option Command Entry Screen. When F9 is pressed, a member is dynamically created in QMNUCL and the command EXECLSRC.

*LIBL/QMNUCL MBR??????? is built, which is then executed when the menu option is selected.

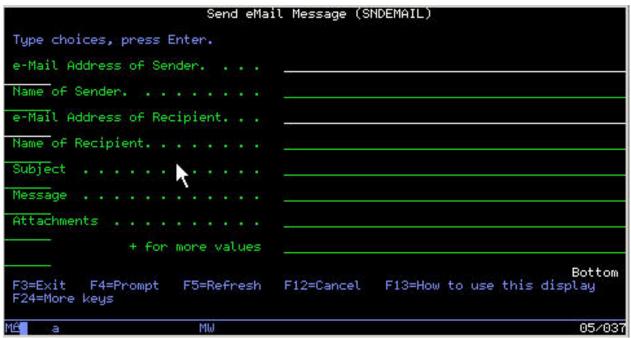
Option 6 - Executes a menu in single column mode.

Options 80,81,82,90 - Self explanatory.

EMAIL from Green Screen and Batch

We use this little utility a lot. It has a hundred uses. And just like the title implies, you can use it interactively or from a batch program. Just fill in the parameters on the command, and like magic, the email will be sent.

The command....



ZIP/UNZIP FILES

ZIP (Zip Stream File) The ZIP tool is a compression tool that combines multiple files into a single JAR archive file. JAR is a general-purpose archiving and compression tool, based on ZIP and the ZLIB compression format.

Zip Stream File(s) Command

	Zip St	ream File(s) (ZIP)
Type choices	, press Enter.	
Stream File		
	+ for more values	
Directory/Zi	p File	
F24=More key	=Prompt F5=Refresh Is	Bottom F12=Cancel F13=How to use this display
MEC		05/037
Parameters	Туре	Description
Stream Files(s)	Char(256) 10x	Contains the name and path of the stream files you wish to include in Zipped file. This a 256 character field. Allowing 10 entries.
Zipped Files	Char(256)	Contains the name and path of the Zipped file.

Zip Stream File(s) Command The UNZIP tool is a decompression tool that extracts multiple files from a single JAR archive file. JAR is a general-purpose archiving and compression tool, based on ZIP and the ZLIB compression format.

UnZip Stream File(s) Command

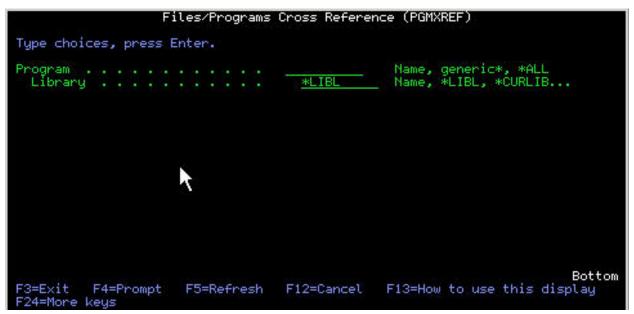
	Zip Str	ream File(s) ((ZIP)			
Type choices, press Er	nter.					
Stream File	on nor nor					
+ for r	more values					
Directory/Zip File .						
esterno tenescono			212-112-2			Bottom
F3=Exit F4=Prompt F24=More keys	Fo=Refresh	F12=Cancel	F13=How	touse	this	display
MÊ c						05/037

Parameters	Туре	Description
Zipped Stream Files(s)	Char(256)	Contains the name and path of the Zipped stream file. This is a 256 character field.
UnZip To Directory Name	Char(256)	Contains the Path or Directory where you wish the UnZipped files to reside. This is a 256 character field.

Program File Cross Reference

Do you need to know where all the files/data areas in your system are used? This utility will show you this information for an individual program, a group of programs or all the programs in a library.

The command:



The results:

5/01/02	FILES/PROGRAMS	CROSS REFE	RENCE PA	GE 8
OBJECT	LIBRARY	PROGRAM	LIBRARY	USAGE
GLLSMM03	LCLIBOBJ	GL0050	LCLIBOBJ	UPDATE/ADD
		GL2005	LCLIBOBJ	INPUT
		GL2005LC	LCLIBOBJ	INPUT
GLLSMM05	LCLIBOBJ	GL3000	LCLIBOBJ	UPDATE
		GL3001	LCLIBOBJ	UPDATE/ADD
		GL3002	LCLIBOBJ	UPDATE/ADD
GLLSMM06		GLC2007P	LCLIBOBJ	NOT SPECIFIED
		GLC2008P	LCLIBOBJ	NOT SPECIFIED
		GLC2050P	LCLIBOBJ	NOT SPECIFIED
		GLC5006P	LCLIBOBJ	NOT SPECIFIED
		GL0005	LCLIBOBJ	INPUT
		GL0010	LCLIBOBJ	UPDATE
		GL0012	LCLIBOBJ	UPDATE

INTERRUPT JOB

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to put it in debug mode right there? Now you can do it.

Just hit the System Request key, or Shift/Esc on your PC. Type in **5 QCMD I** and Enter. This will bring up the command entry screen and you can enter your debug command and your break points.

You will find many uses for this utility. It allows you to execute any program or command using the System Request function.



Nest CL SOURCE

Nest CL Program prints a listing of the CL source program with the nesting statements shown on the left of the spooled output. You may also put the listing to an output file.



Work with Group Jobs



Group jobs allow you to run up to 16 distinct interactive jobs in one session; While requiring you to sign on only once. Only one group job is active at a time, the rest are suspended.

The WRKGRPJOB provides a user friendly interface for:

- Starting Group Jobs
- Listing Group Jobs That Area Suspended
- Transferring to another group job
- Ending a suspended group job

The WRKGRPJOB can be included as part of a set attention program to allow easy access to the command. You would have the ability to interrupt/suspend the current job, start a new group job, do the task at hand, then return to your interrupted/suspended job.

Calculator

How many times have you needed a calculator and didn't have one handy? This utility will solve that problem. You can add, subtract, multiply, divide, add a percentage to the total, total, clear the total, and post a sub-total to the tape. It will also print the tape.

You can even edit the tape and the total will be refigured. To edit the tape, position the cursor on the amount to be changed, change the amount and press "Enter". The Total will be refigured.

You can call this calculator from the command line or put in on everyone's menu. If you use the Interrupt Job tool, just hit the System Request key, or Shift/Esc on your PC. Type in **5** *C* **I** and Enter. This will bring up the calculator for your immediate use.

Help is always available on the calculator by pressing F1.

Scan Message File

The message files we use in our programs are wonderful, but can sometimes be difficult to maintain. With this handy tool, you can scan and filter your message files. You can look for specified phrases, words, or partial words within the text of the message. It also allows you to update the message descriptions.

The command

	Scan Mes	ssage File (SC	CNMSGF)	
Type choices, press E	inter.			
Find 'string'		81		
Lower Range of messag Upper Range of messag Message file name . Library name	je d's	<u>*FIRST</u> <u>*LAST</u> QCPFMSG <u>*LIBL</u>		
F3=Exit F4=Prompt F24=More keys	F5=Refresh	F12=Cancel	Bo F13=How to use this display	ttom d
MA b			01	5/037

Execute CL SOURCE

Allows a programmer/operator the ability to Create/Run a Job Stream or a series of CL commands. This is also used in the Menu System to allow multiple commands to be executed.

The command

	Execute (CL Source (EXE	ECLSRC)	
Type choices, press H	Enter.			
File name Library name Member name		*LIBL *FIRST	Name Name, *LIBL Name, *FIRST	
F3=Exit F4=Prompt F24=More keys	<pre>F5=Refnesh</pre>	F12=Cance U	F13=How to use this	Bottom display
M <u>A</u> b				05/037

Sort File

The command prompts the user with the selection of fields from the designated file. The user can select the fields and order (descending or ascending) for the sort they are performing. We have used this sort quite a bit, during development, to perform analysis over a data base.

The command

	Sort DB2/40	00 Physical F	ile (SORT)	
Type choices, press	Enter.			
File name Library name Sort field name Orde		> <u>GLPENTRY</u> > <u>LCLIBOBJ</u> <u>GLLVL3</u> <u>ASC</u> <u>GLLVL2</u> <u>ASC</u>	Name, *LIBL Name, *LIBL ASC, DESC	
F3=Exit F4=Prompt F24=More keys	F5=Refresh	F12=Cancel	F13=How to use	Bottom this display
Mê l c	MW			05/037

Fill in the physical file name and library and press Enter to bring up the following screen.

		Son	t Physical File			
		Select	Fields For Sort Order		5/02	
File Library			PENTRY LCLIBOBJ		08:51	:40
		ers (1-999) ing, D=Desce	to select columns, press nding	Enter.		
Seq Order	Field	Descripti	on	Type	Length	Dec
	GLLVL3	LEVEL3		P	3	0
	GLLVL2	LEVEL2		P	3	Θ
	GLLVL1	LEVEL1		P	3	0
	ACTTYP	B/S OR P&		A	1	
	SEQ#	SEQ CTL #		P	5	0
	ACCT#	GL ACT#		P	5	Θ
	SUB#	SUBACT		P	553	0
	JESRCE	SOURCE		A	2	
	ENTRY#	ENTRY#		A	6	-
	TEXT#	TEXT#		P	9	0
					Mor	e
F1=Help	F3=Exit	F5=Refresh	F12=Cancel			
(C)Copyrigh	nt ProDat	a Computer S	ervices, Inc. 2002			

Press Enter twice, and the command will appear with the sort fields showing. Verify that the fields are correct and press Enter.

ype choices, press ile name Library name	Enter.	*LIBL	Name _ Name, *LIBL	
3=Exit F4=Prompt 24=More keys	F5=Refresh	F12=Cancel	F13=How to use this	Botto display

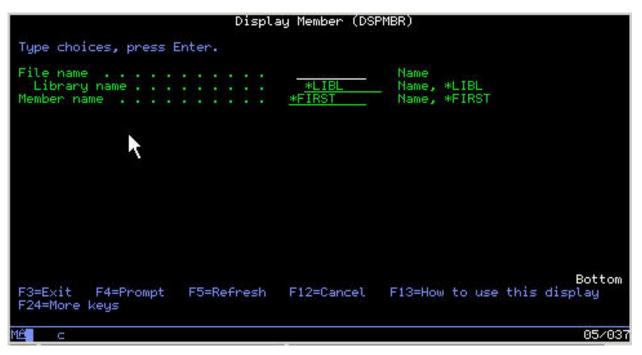
The command will create a logical in QTEMP in the order requested, and use that logical to reorganize the physical file in the requested sequence. This utility is not intended for use in a production environment. It also is prudent not to use this utility to sort large files interactively.

Create MI Program

The create MI program command compiles an MI source member into a program. You may never need to create MI programs. But we include it here in the tool box in case you needed/wanted to make a change to a program in ProTools.

Display Member

Display Member displays source members on machines that don't have IBM's Application Development Toolkit. The source member attributes are displayed similar to SEU.

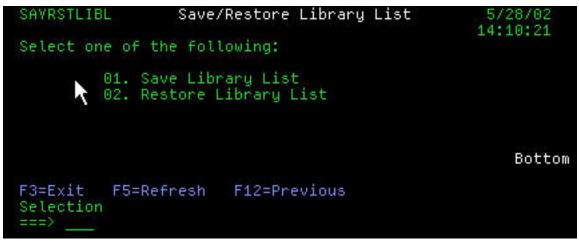


Please review the display of USRIDXCPY (member) in QPROSRC (source file) in PROTOOLS (library). (User Index Prototypes Copy Book).

Display Member (DSPMBR) ProTools Display Member	
PROTOOLS/QPROSRC(USRIDX	(cov)
FRUTUELS (FRUTUELS (GARIDA	
* System Name: User Index Service Program	
* Program Name: USRIDXCPY	
* Program Type: /COPY	15
 Description: User Index Service Program ProtoTypes Copy Boo * Creation Date.: 04/28/2000 	K
 * (C)Copyright ProData Computer Services, Inc. 2002 	
* Creation Command	
<pre>* ((((((((N ot Applicable)))))))</pre>	
· · · · · · · · · · · · · · · · · · ·	
	50005
* Modification Journal	
**	
	ne
	Right
Already at top of area.	
(C)Copyright ProData Computer Services, Inc. 2002	
a MW	04/00

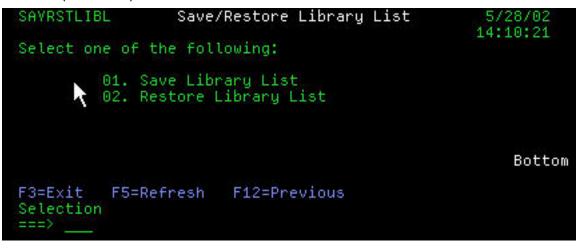
Save / Restore Library List

This is actually two commands as seen below. There are no parameters. Just invoke the command (SAVLIBL) to save the current library list, and then when that library list is to be restored, just invoke the restore (RSTLIBL) current library list command.



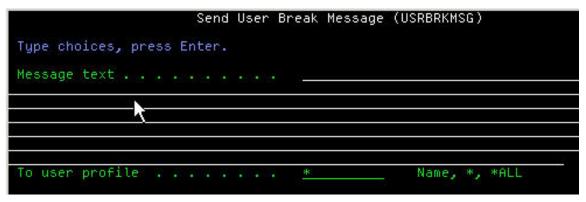
Save / Restore Local Data Area

This is actually 2 commands as seen below. There are no parameters. Just invoke the command (SAVLDA) to save the Local Data Area, and then when that Local Data Area is to be restored, just invoke the restore (RSTLDA) Local Data Area command.



Send User Break Message

This command sends a break message, but with a difference. It sends a message based on user profile instead of workstation.



View PC Document

The VIEWPCD is a command that allows the ability to View PC Documents stored in the QDLS Folder.

Key in the command as follows: viewpcd doc flr **doc=Document**: Specifies the name of the PC document that is copied. The name of the document has the following format: **filename.extension**

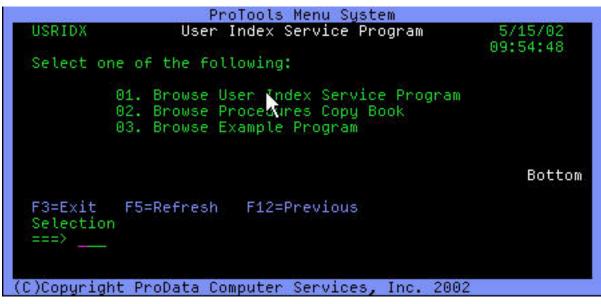
The filename can be from 1 to 8 characters, and the extension can be from 1 to 3 characters. The extension is not required. This is a required parameter.

flr=Folder: Specifies the name of a folder containing the PC document that is copied. This parameter can also specify the name of a folder path in the form: folder1/folder2/folder3/.../folder The path name can be up to 63 characters in length. This is a required parameter.

View PC/Document On AS/400	(VIEWPCD)
Type choices, press Enter.	
Document	Name

User Index Service Program

Create, Delete and Maintain User Indexes with ease. Use our service program to process user indexes. Provided is the User Index Service Program, The Procedures Copy Book, and an Example Program you can compile and execute.



The Following is a list of the procedures we have included in the service program.

- Create User Index
- Retrieve User Index Attributes
- Add User Index Entry
- Retrieve User Index Entry
- Remove User Index Entry
- Delete User Index