

### IBM Debug Tool JCL Wizard

#### **IBM** Technical Preview





**Debug Tool Wizard** 

## **Debug Tool Wizard**

### **Help Information**





	File Edit Edit_Settings Menu Utilities Compilers Test	Help
E C	Debug Tool JCL Wizard Option Selection	00072 > CSR
ж	Choose one of the following options:	*****
Θ	<u>T</u> G - Debug Tool GUI (Remote Debugger)	
Θ	T - Debug Tool Terminal Interface Manager	
Θ	M - Debug Tool Main Frame Interface	
Θ	R - Remove Debug Tool JCL Lines	
Θ	D - Delay Debug Tool Invocation	
Θ	C - Code Coverage Only (No Debug Session)	
Θ		
Θ	An "A" or "B" line command may be used to place the state	ments.
Θ	If no "A" or "B" line command is provided, programs are l	isted.
Θ		
Θ	Press Enter to continue.	
Θ	Press PF1 for additional information.	
Θ	"A" and "B" can be used to place the Debug Tool Statements"	
Θ		RCHG
Θ	F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT	
Θ		
00	0017 *TRAN (* IN COL 1 1 PF1 – Getting Started	PF1
F	1=Help F2=Split F3=Exit F4=Return F5=Rfind	F
F	7=Up F8=Down F9=Swap F10=Left F11=Right	F12=Retrieve



Debug Tool Wizard - Getting Started More: The DEBUG command will provide panels to enter information to create JCL or procedure lines to invoke Debug Tool, remove Debug Tool lines, or create Code Coverage information. The following parameters may be entered: DEBUG G - Invoke Debug Tool using the Remote Graphical User Interface 0 DEBUG T - Invoke Debug Tool using the Terminal Interface Manager 0 DEBUG M - Invoke Debug Tool using the Main Frame Interface 0 DEBUG R - Remove Debug Tool JCL lines added by this tool Ο DEBUG D - Invoke Debug Tool using Delayed Debug Invocation 0 DEBUG C - Code Coverage Only - No Debug Tool Invocation 0 The DEBUG command can be issued when editing or viewing a JCL member or a procedure member. The macro will create instream DD statements. Instream Continue reviewing "Getting Started" with Enter key F6= F12= age Enter



Debug Tool Wizard - Getting Started

More: - + procedure member. The macro will create instream DD statements. Instream DD statments for procedures are permitted with JES2 for z/OS 1.3, and for JES3 with z/OS 2.1.

Changes made from the keyboard are not processed by the DEBUG routine unless you press the ENTER key. If you are modifying JCL or procedure lines, press ENTER, then enter the DEBUG command to achieve the correct results. Otherwise, the most recent changes will not be recognized by the routine.

The Debug Tool JCL Wizard has two methods used to place where the Debug Tool invocation statements are placed.

o An "A" or "B" line command can be used to place the statements. For this method, enter the line "A" or "B" line command, then enter the DEBUG command with the appropriate parameter.

When using the "A" or "B" line command, a panel will be provided to enter a Procedure Step Override.

Continue reviewing "Getting Started" with Enter key

F6= F12= Enter

age



More:

#### Debug Tool JCL Wizard Help Panel

#### Debug Tool Wizard - Getting Started

unless you press the ENTER key. If you are modifying JCL or procedure lines, press ENTER, then enter the DEBUG command to achieve the correct results. Otherwise, the most recent changes will not be recognized by the routine.

The Debug Tool JCL Wizard has two methods used to place where the Debug Tool invocation statements are placed.

o An "A" or "B" line command can be used to place the statements. For this method, enter the line "A" or "B" line command, then enter the DEBUG command with the appropriate parameter.

When using the "A" or "B" line command, a panel will be provided to enter a Procedure Step Override.

o If no "A" or "B" line command is found, the DEBUG routine will look for EXEC PGM=xxxxx lines. If only one program is found in the JCL or procedure, the statements are inserted below the EXEC PGM command. If more than one EXEC PGM=xxxxx line is found, a list of programs are presented. Only one program may be selected.

F Continue reviewing "Getting Started" with Enter key





**Debug Tool Wizard** 

## **Debug Tool Wizard**

### Scenario 1: Language Environment Program with Terminal Interface Manager





	File I	Edit	Edit_Setting	js Menu	Utilities	Compil	ers Test	Help	
E C			Debug To	ol JCL W	lizard Optic	n Selec	tion		00072 > CSR
ж	Cho	se o	ne of the fol	lowing o	ptions:				******
Θ	(:	<u> </u>	- Debug Tool	GUI (Rem	ote Debugge	(n)			
Θ		Т	- Debug Tool	Terminal	Interface	Manager			
Θ		М	- Debug Tool	Main Fra	me Interfac	e			
Θ		R	- Remove Debu	ıg Tool J	CL Lines				
Θ		D	- Delay Debug	j Tool In	vocation				
Θ		С	- Code Covera	age Only	(No Debug S	ession)			
Θ									
Θ	An "A" or "B" line command may be used to place the statements.								
Θ	If no "A" or "B" line command is provided, programs are listed.								
Θ									
Θ	Pres	ss En	ter to contir	iue.					
Θ	Pres	ss PF	1 for additio	onal info	rmation.				
Θ									
Θ	F1=I	HELP	F2=SPLIT	F3=END	F4=RETU	RN F5=	RPFND F6	=RCHG	
Θ	F7=1	JP	F8=DOWN	F9=SWAP	F10=LEFT	F11=	RIGHT		
Θ									
00	0017 /.	TRAN	FILE DD *					E	nter
F	1=Help		F2=Split	F3=Exit	F4=Re	turn	F5=Rfind	⊫ل <sup>ح</sup>	
F	7=Up		F8=Down	F9=Swap	F10=Le	ft	F11=Right	F12=Re	etrieve







File Edit Edi	it_Settings Menu Utilities Compilers Test Help								
Debug Tool TIM (Terminal Interface Manager) Parms									
Enter optional parameters below									
LE Program	·								
	_ Debug Tool Wizard - Language Environment Enabled Program								
Userid									
	Enter "YES" if the program invoked by the "EXEC PGM="								
Enter '/' to	statement is language environment enabled. Programs that								
DT Source L	are "language environment enabled" are linked with the								
LDD Program	language environment library which generally ends in								
At Entry	SCEELKED.								
AutoMonitor									
Code Covera	Enter "NO" if the program is not language environment								
Debug Tool	enabled.								
Show Commen									
	If this option is specified incorrectly, Debug Tool will								
Press Enter	not be invoked.								
F1=HELP									
F6=RCHANGE	F1=Help F2=Split F3=Exit F4= PF12								
	F5=Exhelp F6=Keyshelp F7=PrvPage F8=								
⊢r=∪p F'									















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-DSC- EDIT DNET424 ADLAB.JCL(XSAM) - 01.99 Columns 00001 00072
Command === EQAJCL B Scroll ===> CSR
000011 //STEP2 EXEC PGM=SAM1,
000012 // REGION=4M
000013 //*!LINES BELOW CREATED BY THE DEBUG COMMAND FOR PGM SAM1
000014 //CEEOPTS DD * !INVOCATION FOR TERMINAL INTERFACE MANAGER
000015 TEST(,EQACMD,,VTAM%DNET424:)
000016 //EQACMD DD *
000017 SET LOG OFF;
000018 SET AUTO ON BOTH; Remove Debug Tool commands
000019 SET WARN OFF;
000020 CLEAR AT ENTRY;
000021 AT ENTRY SAM2;
000022 AT ENTRY SAM3;
000023 COMMENT TO VIEW THE SOURCE OF A SUBPROGRAM FOLLOW THE STEPS BELOW:;
000024 COMMENT 1) ENTER A "STEP" COMMAND;
000025 COMMENT 2) ENTER "QUALIFY PROGRAM" PGMNAME;
000026 COMMENT 3) IF THE LOAD MODULE NAME IS NOT THE SAME AS PROGRAM NAME:;
00002 COMMENT ENTER "QUALIFY PROGRAM LOADMOD::>PGMNAME";
000028 //*!LINES ABOVE CREATED BY THE DEBUG COMMAND FOR PGM SAM1
000029 //STEPLIB DD DISP=SHR,DSN=&SYSUIDADLAB.LOAD
000030 //CUSTFILE DD DSN=&SYSUIDADLAB.FILES(CUST2FA),DISP=SHR

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-DSC- EDIT DNET424.ADLAB.JCL(XSAM) - 01.99 Columns 00001 00072 Command ===> Scroll ===> <u>CSR</u>
****** *******************************
000001 //DNET424T JOB (ACCTG), 'IBM TOOLS WORKSHOP', REGION=4M, CLASS=A,
000002 // MSGCLASS=H, NOTIFY=&SYSUID, MSGLEVEL=(1,1)
000003 // SET PROGRAM=SAM1
000004 //PRINT1 EXEC PGM=IDCAMS
000005 //SYSPRINT DD SYSOUT=*
000006 //FILE DD DSN=&SYSUIDADLAB.FILES(CUST2FA),DISP=SHR
000007 //SYSIN DD *
000008 PRINT INFILE (FILE) COUNT (1) THE DEDUG TOOLJCL WIZAID JCL
statements are removed
000010 //STEP2 EXEC PGM=&PROGRAM,
000011 // REGION=4M
000012 //STEPLIB DD DISP=SHR, DSN=&SYSUIDADLAB.LOAD
000013 //CUSTFILE DD DSN=&SYSUIDADLAB.FILES(CUST2FA),DISP=SHR
000014 //SYSPRINT DD SYSOUT=*
000015 //SYSOUT DD SYSOUT=*
000016 //CUSTRPT DD SYSOUT=*
000017 //CUSTOUT DD SYSOUT=*
F1=Help F2=Split F3=Exit F4=Return F5=Rfind F6=Rchange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Retrieve



**Debug Tool Wizard** 

## **Debug Tool Wizard**

## Scenario 2: Language Environment Program with Remote GUI using the "A" line command with a Procedure Step Override



















F	ile Edit Ed	it_Settings	Menu Uti	lities Comp	ilers	Test He	elp		
- [	Debug Tool - Proc Step Override								
С									
*	Optionally enter a Proc Step Override								
0	Proc Step O	verride ==	RUNSAM1						
0									
0	Press Enter to continue								
0	Optionally, you may enter the Procedure Step Override								
					Minu		、		
0				E9-SU0	D		, ,		
õ L	FO-RCHANGE	FT-OF	F8-D0WN	F9-5WH		FIG->BHCK			
A00010 //TESTSAM1 EXEC PROC=TESTSAM1									
000011 //*									
000	012 //PRINT2	EXEC PGM=ID	CAMS						
000	013 //SYSPRIN	T DD SYSOUT=	ĸ						
000	014 //FILE	DD DSN=&SY	SUIDADLA	B.FILES (CUST	2FA), D	ISP=SHR			
000	015 //SYSIN D	D *							
000	016 PRINT IN	FILE(FILE) C	DUNT (1)						
000	017 //IDIOPTS	DD *							
F1	=Help F2	=Split F:	3=Exit	F4=Return	F5=	Rfind	F6=	PF3	
F7	=Up F8	=Down F	Э=Ѕwар	F10=Left	F11=	Right	F12=		







**Debug Tool Wizard** 

## **Debug Tool Wizard**

### Scenario 3: Non-Language Environment Program with Terminal Interface Manager













File Edit Edit_Settings Menu Utilities Compilers Test Help									
Debug Tool TIM (Terminal Interface Manager) Parms									
E Debug Tool Program Name									
Debug Tool Source Libraries									
Enter Debug Tool Source Libraries (SYSDEBUG or EQALANGX libraries)									
Epter fully qualified pames without quotes Library1 == DNET424.ADLAB.EQALANGX									
Library2 ==>									
Library3 ==>									
Library4 ==>									
Library5 ==>									
Library6 ==>									
Press Enter Specify up to 6 source libraries. They may be SYSDEBUG or LANGX libraries, created from the F5=RFIND									
Compilation or Assembly process.									
Enter									
F7=Up F8=Down F9=Swap F10=Left F11=Right F1									













#### Debug Tool JCL Wizard Request to remove JCL lines





#### Debug Tool JCL Wizard Lines removed

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EDIT Command ===	DNET424.ADLAB.J	CL (XASAM	11) - 01.99		Col	umns 00001 00072 Scroll ===> <u>CSR</u>
*****	*****	******	*** Top of D	ata ******	******	******
000001 //DN	ET424X JOB (ACC)	Т <mark>G),</mark> 'ІВМ	I TOOLS WORK	SHOP', REGIO	)N=4M, CI	LASS=A,
000002 //	MSGCLAS	<u>s=н.</u> Not I	FY=&SYSUID,	MSGLEVEL= (1	.,1)	
000003 //AS	AM1 EXEC CGM=A	SAM1, PAR	M='ABCD',			
000004 // C	OND= (4, LT)	×				
000005 //ST	EPLIB DD DSN=&	SYSUID.	ADLAB.LOAD,	DISP=SHR		
000006 //FI	LEIN DD *, DCB	= (LRECL	<b>80)</b>			
000007 INPU	T RECORD ONE					
000008 INPU	T RECORD TWO		JCL lines r	emoved an	d progr	am name
000009 INPU	T RECORD THREE		changed b	ack to ASA	M1	
000010 INPU	T RECORD FOUR					
000011 INPU	T RECORD FIVE					
000012 INPU	T RECORD SIX					
000013 INPU	T RECORD SEVEN					
000014 INPU	T RECORD EIGHT					
000015 //*	ABEND <=== "A	BEND" WI	LL CAUSE TH	E SAMPLE PR	ROGRAM	TO ABEND
000016 //FI	LEOUT DD SYSOU	T=*				
000017 //SY	SUDUMP DD SYSOU	Т=ж				
F1=Help	F2=Split	F3=Exit	F4=Re	turn F5=	Rfind	F6=Rchange
F7=Up	F8=Down	F9=Swap	F10=Le	ft F11=	Right	F12=Retrieve



**Debug Tool Wizard** 

## **Debug Tool Wizard**

### Scenario 4: Language Environment DB2 program with Remote GUI



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-DSC- EDIT DNET424.eDLAB.JCL(TRADER) - 01.52 Columns 00001 00072 Command ===> EQAJCL G Scroll ===> CSR
****** *******************************
000001 //DNET4240 JOB (JIM), 'FA UTILITY'.
000002 // NOTIEY=DNET424
000003 // MSGCLASS=A REGION=0M
0000004 77 = 0000001000000000000000000000000000
0000005 // HADEDD2 EXEC TOM-INSEL TOI, DIAMANDA-20, COMD-(4, ET), AEDION-44
000008 RUN PLHN(TRHDERIC) -
000009 PROGRAM ( TRADERD )
Enter the source library for the our
UUUU11 //STEPLIB LINCI THE SOURCE INITIALY TOT THE SHR
000012 // VSCOBOL II program. It is
000013 //DBRMLIB created by the LANGX step PBRMLIB
000014 //TRANSACT following the COBOL Compile PATCH. TRANFILE
000015 //REPOUT
000016 //TRANREP DD SYSOUT=*
000017 //SYSTSPRT DD SYSOUT=* Enter
000018 //SYSPRINT DD SYSOUT=*
000019 //SYSUDUMP DD SYSOUT=*



File Edit Edit_Settings Menu Util	ities Compilers Test Help					
Debug Tool GUI (Remo	te Debuger) Parameters					
Enter the parameter <del>s below</del> : LE Program => <u>YES</u> Language E	nvironment Enabled YES/NO)					
Enter the TCP/IP Address of your wor IP Address ==> <u>9.76.151.68</u> Port ==> <u>8001</u>	kstation and Debug Tool Port					
Enter '/' to enter additional Debug Tool information DT Source Libs ==> _ (Identify source libraries for ASM or LANGX) LDD Programs ==> _ (Load Assembler or LANGX COBOL source) At Entry ==> (Request to stop in subprograms) AutoMonitor on == (Automatically monitor variables)						
Show Comments ==> <u>Instructions</u>	on how to display subprograms)					
Press Enter to The Auto Monitor is with Language Envir	not needed with the GUI conment programs. Use					
COOO17 PROGRAM ( TRF "Filter Locals" in the the monitor variables	GUI Variable pane to set s in the GUI.					



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-DSC- EDIT DNET424.ADLAB.JCL(TRADER) - 01.52 DT Statements Added
Command ===> <u>SUB</u> Scroll ===> <u>CSR</u>
***** ********************************
000001 //DNET4240 JOB (JIM), 'FA UTILITY',
000002 // NOTIFY=DNET424,
000003 // MSGCLASS=A, REGION=0M,
000004 // CLASS=A
000005 //TRADEDB2 EXEC PGM=IKJEFT01, DYNAMNBR=20, COND=(4,LT), REGION=4M
000000 //*!LINES BELOW CREATED BY THE DEBUG COMMAND FOR PGM IKJEFT01
000007 //CEEOPTS DD * !INVOCATION FOR REMOTE GUI
00000B TEST(,EQACMD,,TCPIP&9.76.151.68%8001:)
000009 //EQACMD DD *
000010 SET AUTO OFF;
000011 SET WARN OFF;
000012 //*!LINES ABOVE CREATED BY THE DEBUG COMMAND FOR PGM IKJEFT01
000013 //SYSTSIN DD *
000014 DSN SYSTEM(DSNC)
000015 RUN PLAN (TRADERIC) - DP2 program
000016 PROGRAM (TRADERD ) DB2 Program
000017 END
000018 //STEPLIB DD DSN=DNET424.TRADER.LOAD,DISP=SHR
000019 // DD DSN=DB2.V10.SDSNL0AD,DISP=SHR



**Debug Tool Wizard** 

## **Debug Tool Wizard**

### Scenario 5: Non-Language Environment DB2 program with Remote GUI





File Edit Edit_Settings Menu Utilities Compilers Test Help	
Debug Tool GUI (Remote Debuger) Parameters	
Enter the paramete <del>rs bel</del> ow: LE Program -> <u>NO</u> (Language Environment Enabled YES/NO)	
Enter the TCP/IP Address of your workstation and Debug Tool Port IP Address ==> <u>9.76.151.68</u> Port ==> <u>8001</u>	
<pre>Enter '/' to enter additional Debug Tool information DT Source Libs ==&gt; / (Identify source libraries for ASM or LANGX) LDD Programs ==&gt; / (Load Assembler or LANGX COBOL source) At Entry ==&gt; / (Request to stop in subprograms) AutoMonitor on ==&gt; _ (Automatically monitor variables) Warning off ==&gt; _ (Allows variable changes for Optimized programs) Show Comments ==&gt; _ (Instructions on how to display subprograms)</pre>	
Press Enter to continue	1
DO0017 //SYSTSPRT DD SYSOUT=* DO0018 //SYSPRINT DD SYSOUT=* DO0019 //SYSUDUMP DD SYSOUT=*	



	File	e Edit Edit_Settings Menu Utilities Compilers Test Help								
		Debug Tool GUI (Remote Debuger) Parameters								
	Е	Debug Tool Program Name								
	Non-LE program changes require a load module name E Enter Loadmod ==> <u>TRADERD</u> (PGM=xxxxxx) in your JCL									
		Press Enter to continue								
	Е									
	Au	itoMonitor on ==> (Automatically monitor variables)								
	Wa	arning off ==> (Allows variable changes for Optimized programs)								
	Sh	now Comments ==> (Instructions on how to display subprograms)								
	Press Enter to continue									
00	0017	//SYSTSPRT_DD_SYSOUT=*								
00	0018	3 //SYSPRINT DD SYSOUT=*								
00	00019	0 //SYSUDUMP DD SYSOUT=*								



File Edit Edit_Settings Menu Utilities Compilers Test Help							
Debug Tool GUI (Remote Debuger) Parameters							
E Debug Tool Program Name							
Debug Tool Source Libraries							
Enter Debug Tool Source Libraries (SYSDEBUG or EQALANGX libraries) Enter fully qualified names without quotes Library1 ==> DNET424.ADLAB.EQALANGX Library2 ==> Library3 ==> Library4 ==> Library5 ==> Press Enter to continue							
Enter							
000018 //SYSPRINT DD SYSOUT=*							



File Edit Edit_Settings Menu Utilities Compilers Test Help									
Debug Tool GUI (Remote Debuger) Parameters									
E Debug Tool Program Name									
Debug Tool Source Libraries									
Debug Tool Non-LE Programs									
Enter name of the program and subprogram(s) you plan to debug: Programs ==> <u>TRADERD</u> ==> ==>									
LDD instructs Debug Tool to load the program source. Enter the names of the programs you plan to debug. The program name may be different from the load module (PDS or PDSE member) name.									
Press Enter to continue									



```
File Edit Edit Settings Menu Utilities Compilers Test Help
 File Edit
             Edit_Settings Menu Utilities Compilers Test
                                                              Help
              -- Debug Tool Wizard - Assembler DB2 Invocation
  Debug Tool Wizard does not support DB2 non-LE JCL changes. To debug a
  DB2 non-LE program, manually make the changes shown below in White.
    //STEP5D EXEC PGM=IKJEFT01
    . . . .
    //SYSTSIN DD *
    DSN_SYSTEM(DSNA)
    RUN PROGRAM ( EOANMDBG ) PLAN (MYPROG) -
    PARM ('ABC, 123')
    END
    /*
    //EOANMDBG DD *
    myprog,TEST(,,,VTAM userid:)
    //INSPPREF DD *
     LDD myprog
   Press PF3 to exit
                                                                     PF<sub>3</sub>
   F1=HELP F2=SPLIT
                           F3=END
                                       F4=RETURN F5=RFIND
              F8=D0WN
                                      F10=LEFT
                                                  F11=RIGHT
   F7=UP
                           F9=SWAP
```



**Debug Tool Wizard** 

## **Debug Tool Wizard**

### Scenario 6: Code Coverage without a Debug Tool Session



#### Debug Tool JCL Wizard Code Coverage without Debug Tool Session

#### **Code Coverage Utility:**

- Requires Enterprise COBOL or Enterprise PL/I with the SYSDEBUG file

   TEST parameter with NONE or NOHOOK, and SEP sub-parameter
- Can run without a Debug Tool Session, or with a 3270 Debug Tool Session
   Not available to run with a Remote GUI session
- Identification of Code Coverage Files
  - Customization of Debug Tool EQAOPTS module to identify the Code Coverage files
    - or
  - Installer sets the variable CODE\_COVERAGE\_SETUP = 'YES' in the DEBUG routine which will generate the following statements:
    - //EQAOPTS DD \*
    - EQAXOPT CCPROGSELECTDSN, '&&USERID.DBGTOOL.CCPRGSEL'
    - EQAXOPT CCOUTPUTDSN, '&&USERID.DBGTOOL.CCOUTPUT'
    - EQAXOPT CCOUTPUTDSNALLOC, 'MGMTCLAS (STANDARD)

- +
- STORCLAS(DEFAULT) LRECL(255) BLKSIZE(0) RECFM(V,B)
- DSORG(PS) SPACE(2,2) CYL'

EQAXOPT END



#### Debug Tool JCL Wizard Code Coverage without Debug Tool Session





#### Debug Tool JCL Wizard Code Coverage without Debug Tool Session





**Debug Tool Wizard** 

## **Debug Tool Wizard**

### Scenario 7: Code Coverage with a Debug Tool Session



#### Debug Tool JCL Wizard Code Coverage with a Debug Tool Session

<u>F</u> ile <u>E</u> dit E <u>d</u> it_Settings <u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp	
-DSC- EDIT DNET424 ADLAB.JCL(XSAM) - 01.99 Columns 00001 0007 Command ===> EQAJCL T Scroll ===> <u>CSR</u>	2
***** ********************************	**
000001 //DNET424T JOB (ACCTG), 'IBM TOOLS WORKSHOP', REGION=4M, CLASS=A,	
000002 // MSGCLASS=H, NOTIFY=&SYSUID, MSGLEVEL=(1,1)	
000003 // SET &PROGRAM=SAM1	
000004 //PRINT1 EXEC PGM=IDCAMS	
000005 //SYSPRINT DD SYSOUT=*	
000006 //FILE DD DSN=&SYSUIDADLAB. Remote GUI IS not supported	
000007 //SYSIN DD *	
000008 PRINT INFILE(FILE) COUNT(1)	
000009 //*	
000010 //RUNSAM1 EXEC PGM=SAM1,REGION=4M	
000011 //STEPLIB DD DISP=SHR,DSN=&SYSUIDADLAB.LOAD	
000012 //CUSTFILE DD DSN=&SYSUIDADLAB.FILES(CUST2FA),DISP=SHR	
000013 //SYSPRINT DD SYSOUT=*	
000014 //SYSOUT DD SYSOUT=*	
000015 //CUSTRPT DD SYSOUT=*	
000016 //CUSTOUT DD SYSOUT=*	
000017 //TRANFILE DD * Enter	
000018 *TRAN (* IN COL 1 IS A COMMENT)	
000019 *	



#### Debug Tool JCL Wizard Code Coverage with a Debug Tool Session





#### Debug Tool JCL Wizard Code Coverage with a Debug Tool Session





**Debug Tool Wizard** 

# **Debug Tool Wizard**

## Scenario 8: Language Environment with a VS COBOL II Program compiled with NOTEST option, with the Terminal Interface Manager



#### Debug Tool JCL Wizard

#### Debug VS COBOL II program with Terminal Interface Manager





#### Debug Tool JCL Wizard Debug VS COBOL II program with Terminal Interface Manager





#### Debug Tool JCL Wizard

#### Debug VS COBOL II program with Terminal Interface Manager





### Debug Tool JCL Wizard

#### Debug VS COBOL II program with Terminal Interface Manager





#### Debug Tool JCL Wizard Debug VS COBOL II program with Terminal Interface Manager





#### Debug Tool JCL Wizard

#### Debug VS COBOL II program with Terminal Interface Manager





**Debug Tool Wizard** 

# **Debug Tool Wizard**

## Scenario 9: Non-Language Environment program when the source member does not match the program name





File Edit Edit_Settings Menu Utilities Compilers Test Help										
Debug Tool TIM (Terminal Interface Manager) Parms										
Enter optional parameters below LE Program => <u>NO</u> (Language Environment Enabled YES/NO)										
Userid ==> <u>DNET424</u> (UserId) Request Source Libraries and LDD Statements										
DT Source Libs ==> / (I	dentifu source li	braries for ASM o								
LDD Programs ==> / (L	oad Assembler or	LANGX COBOL sourc	e)							
At Entry ==> (F	Request to stop in	n subprograms)								
AutoMonitor on ==> / (A	Automatically moni	tor variables)								
Code Coverage ==> _ (C	ode Coverage - Er	terprise COBOL/PL	1 only)							
Debug Tool Log ==> _ (C	apture Debug Log	on SYSOUT=*)								
Show Comments ==> _ (I	Show Comments ==> _ (Instructions on how to display subprograms)									
Press Enter to continue										
F1=HELP F2=SPLIT	F3=END	F4=IPT View	F5=							
F6=RCHANGE F7=UP	F8=DOWN	F9=SWAP	F10= Enter							
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Retr										







File Edit	Edit_Setting	s Menu	Utilities	Compilers	Test Hel	lp				
Debug Tool TIM (Terminal Interface Manager) Parms										
E Debug Tool Program Name										
Debug Tool Source Libraries										
Enter Debug Tool Source Libraries (SYSDEBUG or EQALANGX libs) Library1 ==> DNET424.ADLAB.EQALANGX Library2 ==> Library3 ==> The Source library is identified. Library4 ==> Library5 ==> Press Enter to continue										
F1=HELP	F2=SPLI	F3=END		F4=IPT V	iew F5	5=RFIND				
F6=RCHAN	GE F7=UP		F8=DOWN	F9=SWAP	F10	Enter				
F1=Help	F2=Split	F3=Exit	F4=Re	turn F5=R	find	F				
F7=Up	F8=Down	F9=Swap	F10=Le	ft F11=R	ight F	12=Retrieve				











	EI	QADEBUG Memb	per Selection	List	Row 1 to 11 of 11					
Option ===>					_ Scroll ====> <u>CSR</u>					
Select only one member to build the SET SOURCE information from the										
LIBRARY DNET	424.HULHB.E	UHLHNGX								
Enter "S" to sel	lect or des	elect a memb	er for progra	m ASAM1						
Press ENTER to a	confirm sel	ection, PF3	to continue,	CANCEL to	cancel request.					
SET SOURCE ON ("F	ASAM1") DNE	T424.ADLAB.E	QALANGX (ASAM1	<b>C</b> )						
<u>Sel</u> <u>Response</u>	Member	The Cet	Course statem	antia						
* *Selected	ASAM1C	ine Set	Source staten	ientis						
	ASHM2	built to n	nap the progra	m name						
	ISAMOS1	with the	source membe	er.						
	ISAMOS2									
	PADSTAT									
—	RVHTEST2									
—	SAMII1									
—	SAMOS1									
—	SAM1									
—	SAM2									
—	SOM3									
			EATER View	EE-DETNI						
			E10=\ROCK							
	D-DOWIN	1 3-3WHF	1 TO->BHCK	TI-KIGH						



		Pro	gram Seleo	ction List		- Row 1	to 2 of	2
Command =:	==>					Scroll	====> <u>CS</u>	R
Enter "S" Press "F3	to select a " to continu	a step to De Je or enter	bug ASAM1 CANCEL to	cancel th	e request.			
Sel Num	<u>Program</u> IDCAMS ASAM1	<u>StepName</u> PRINT1 ASAM1	<u>Linenum</u> 3 9					
*****	****	*****	Bottom of	data ****	*****	*****	******	**
	Sel	ect the step i	name in to	debug				
						F		1
F1=HELP F7=UP	F2=SPL F8=D0WI	IT F3=EN N F9=SW	D F4 AP F10	4=IPT View D=>BACK	F5=RFIND F11=RIGHT	F F12=	Enter RETRIEVE	



**Debug Tool Wizard** 

## **Debug Tool Wizard**

### **End of Presentation**