



CSR 1234

ZZTDOC Sample

Source Code Walkthrough Document

Natural, JCL, COBOL & Sample Report

4/1/2003
Version 1.0

Prepared by:

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Table of Contents

1 ZZMATCH (Natural)	3
1.1 ZZMATCH (Natural) Source Listing	3
1.2 ZZMATCH Adabas Command Listing	10
2 MTCHJCL (JCL)	11
2.1 MTCHJCL (JCL) Source Listing	11
3 MTCHMSTR (Control)	12
3.1 MTCHMSTR (Control) Source Listing	12
4 MTCHTRAN (Control)	13
4.1 MTCHTRAN (Control) Source Listing	13
5 Sample Reports	14
5.1 Sample Sequential Match Report (ZZMATCH)	14
6 ZZCUSTOM (Natural)	16
6.1 ZZCUSTOM (Natural) Delta Source Comparison	16
6.2 ZZCUSTOM (Natural) CHNGL Source Comparison	17
6.3 ZZCUSTOM Adabas Command Listing	21
7 RGZNUMB (Natural)	22
7.1 RGZNUMB (Natural) Delta Source Comparison	22
7.2 RGZNUMB (Natural) LONGL Source Comparison	23
7.3 RGZNUMB Adabas Command Listing	25
8 RGZLDA (Natural)	26
8.1 RGZLDA (Natural) Source Listing	26
8.2 RGZLDA Adabas Command Listing	27
9 NEWBIE (COBOL)	28
9.1 NEWBIE (COBOL) Delta Source Comparison	28
9.2 NEWBIE (COBOL) CHNGL Source Comparison	29
9.3 NEWBIE (COBOL) Cross Reference Listing	32

1.1 ZZMATCH (Natural) Source Listing

ZZLIST CalSTRS - START Development 08/01/2003 09:13
Natural Utilities ZZUtils v2
Natural Source Module Listing Page: 1
Library: ZZUTIL Program: ZZMATCH Natural: 3.1 0004
Saved by STRGZ on 01/01/2003 02:01:01 Termid: 0052

```
0010 * Module:      ZZMATCH                      (c) 2002 LEN Consulting LLC
0020 * System:      ZZUtils
0030 * Function: Sequential Match
0040 * Author:      R. Zbrog
0050 * Date:        02/18/89
0060 *****
0070 *   Date      *   Name      * Summary of Changes
0080 *****
0090 * 09/11/01 * R. Zbrog * Demo files
0100 * 09/23/94 * R. Zbrog * Nat 2.2.5
0110 * 09/29/93 * R. Zbrog * Comments requesting custom code.
0120 * 12/16/92 * R. Zbrog * Trace
0130 *****
0140 *
0150 * Sample sequential-match program.
0160 *
0170 *   Matches an Adabas file and a work file - the Adabas file MUST be
0180 *   processed as the outer loop. Two sequential files may be matched by
0190 *   replacing the Adabas READ loop with a READ WORK loop (although no
0200 *   starting value may be specified for the READ WORK loop). Two Adabas
0210 *   files may not be matched; one of them must be converted to a work
0220 *   file (ie the inner loop MUST process a WORK file).
0230 *
0240 *   The view or record layout for the outer loop is called MSTR. The
0250 *   record layout for the inner loop is called TRAN.
0260 *
0270 *   The program uses the standard algorithm for a master file updated by
0280 *   a transaction file. The view or record layout for the outer loop
0290 *   is called MSTR; the record layout for the inner loop is called TRAN.
0300 *   The program detects record matches, extra MSTR records, and extra
0310 *   TRAN records.
0320 *
0330 *   The MSTR file must have a unique key and the TRAN file must be in
0340 *   the same sequence as MSTR. If both files have unique keys, a ratio
0350 *   of 1:1, then either file may be defined as MSTR or TRAN. If there
0360 *   is a 1:n ratio, then the file with the unique key must be defined as
0370 *   MSTR and the file with the non-unique key must be defined as TRAN.
0380 *
0390 *   Indeed, the files may not be true master and transaction files. It
0400 *   is the one-to-many ratio that defines which file will be treated as
0410 *   master and which will be treated as transaction.
0420 *
0430 *   If MSTR is an Adabas file, the program may be a good Prefetch
0440 *   candidate.
0450 *
0460 *   When customizing this program, review all comments for coding
0470 *   suggestions. For example, if a 1:1 ratio, optimize for this.
0480 *
0490 *   Lines marked with '<<<' contain mandatory changes.
0500 *   Lines marked with '>>>' contain optional code; use as appropriate.
0510 *   Remove optional code if it is not needed, as this will improve
0520 *   performance.
0530 *
0540 *   It is recommended that the #TRACE-ALL variable be set to TRUE until
```

1.1 ZZMATCH (Natural) Source Listing

```

ZZLIST  CalSTRS - START Development          08/01/2003 09:13
        Natural Utilities                    ZZUtils v2
        Natural Source Module Listing        Page:  2
        Library: ZZUTIL      Program: ZZMATCH  Natural: 3.1 0004
        Saved by STRGZ       on 01/01/2003 02:01:01  Termid: 0052

0550 *   the user has reached an acceptable level of confidence in the
0560 *   program's use.  This setting will cause an audit report to be
0570 *   produced, displaying all widows, orphans, and matches.
0580 *
0590 *   Software AG's EMPLOYEES demonstration file was used as the basis for
0600 *   the sample match in this program.  To ensure unique keys, the MSTR
0610 *   file is defined as a WORK file.  Refer to module ZZMATCHJ for JCL
0620 *   which includes sample MSTR and TRAN data.
0630 *
0640 *
0650 DEFINE DATA LOCAL
0660 1 MSTR (A72)          1 REDEFINE MSTR      /* Extract of EMPLOYEES demo file
0670 2 PERSONNEL-ID (A8)
0680 2 NAME (A20)
0690 2 FIRST-NAME (A20)
0700 2 PHONE (A15)
0710 2 DEPT (A6)
0720 2 LANG (A3)
0730 *
0740 *
0750 1 #TRAN (A40)       1 REDEFINE #TRAN
0760 2 NAME (A20)
0770 2 DEPT (A6)
0780 2 CUSTOMER (N5)
0790 2 COMMISSION (N7.2)
0800 *
0810 *
0820 1 #START                                /* >>> Optional FROM processing
0830 2 DEPT (A6)                               INIT <' '>
0840 2 NAMEW (A20)                             INIT <' '>
0850                                1 REDEFINE #START
0860 2 #START-KEY (A26)
0870 *
0880 1 #END                                /* >>> Optional THRU processing
0890 2 DEPT (A6)                               INIT <'99'>
0900 2 NAME (A20)                             INIT <'99999999'>
0910                                1 REDEFINE #END
0920 2 #END-KEY(A26)
0930 *
0940 1 #MKEY                                /* >>> Build key from non-contiguous fields
0950 2 DEPT (A6)
0960 2 NAME (A20)
0970                                1 REDEFINE #MKEY
0980 2 #MSTR-KEY (A26)
0990 *
1000 1 #TKEY                                /* >>> Build key from non-contiguous fields
1010 2 DEPT (A6)
1020 2 NAME (A20)
1030                                1 REDEFINE #TKEY
1040 2 #TRAN-KEY (A26)
1050 *
1060 *
1070 1 #N                                    /* Counters
1080 2 CNM (P7)                             /* Master

```

1.1 ZZMATCH (Natural) Source Listing

ZZLIST CalSTRS - START Development 08/01/2003 09:13
Natural Utilities ZZUtils v2
Natural Source Module Listing Page: 3
Library: ZZUTIL Program: ZZMATCH Natural: 3.1 0004
Saved by STRGZ on 01/01/2003 02:01:01 Termid: 0052

```
1090 2 EXTM (P7) /* Extra Master (Widow)
1100 2 CNNT (P7) /* Transaction
1110 2 EXTT (P7) /* Extra Trans (Orphan)
1120 2 MCHT (P7) /* Matched transactions
1130 *
1140 1 #LOGICALS
1150 2 #MSTR-MATCHED (L)
1160 2 #TRAN-NEEDED (L) INIT <TRUE>
1170 2 #EOF (L) INIT <FALSE>
1180 /*
1190 2 #TRACE-ALL (L) INIT <TRUE> /* >>>
1200 2 #TRACE-MSTR (L) INIT <FALSE> /* >>>
1210 2 #TRACE-TRAN (L) INIT <FALSE> /* >>>
1220 2 #TRACE-MISC (L) INIT <FALSE> /* >>>
1230 *
1240 1 #MISC
1250 2 #DATE (A8) INIT <*DATU> /* Constant for report
1260 2 #TIME (A5) INIT <*TIMX> /* Constant for report
1270 *
1280 2 #NAME (A20)
1290 END-DEFINE
1300 *
1310 FORMAT (01) PS=60 LS=132
1320 */
```

1.1 ZZMATCH (Natural) Source Listing

```

ZZLIST  CalSTRS - START Development          08/01/2003 09:13
        Natural Utilities                    ZZUtils v2
        Natural Source Module Listing        Page:  4
        Library: ZZUTIL                     Program: ZZMATCH   Natural: 3.1 0004
        Saved by STRGZ                       on 01/01/2003 02:01:01 Termid: 0052

```

```

1330 *
1340 READ WORK 1 MSTR                      /* >>> READ MSTR BY DEPT-PERSON
1350 /*      FROM #START-KEY                /* >>>
1360 ASSIGN #MKEY.DEPT = MSTR.DEPT          /* >>> Build a
1370 ASSIGN #MKEY.NAME = MSTR.NAME          /* >>> contiguous key
1380 IF #MSTR-KEY > #END-KEY                /* >>> Optional 'thru'
1390     THEN
1400     ESCAPE BOTTOM
1410 END-IF
1420 ADD 1 TO #N.CNTM
1430 ASSIGN #MSTR-MATCHED = FALSE           /* Not yet matched
1440 *
1450 *
1460 COMPRESS MSTR.NAME                     /* <<<
1470     ' '
1480     INTO #NAME LEAVING NO SPACE
1490 COMPRESS #NAME                         /* <<<
1500     MSTR.FIRST-NAME
1510     INTO #NAME
1520 *
1530 *
1540 RPT.
1550 REPEAT
1560     IF #TRAN-NEEDED
1570     THEN
1580     TR.
1590     READ WORK 2 ONCE #TRAN
1600     AT END OF FILE
1610     ASSIGN #EOF = TRUE
1620     END-ENDFILE
1630     IF #EOF
1640     THEN
1650     MOVE ALL H'FF' TO #TRAN-KEY
1660     ASSIGN #TRAN-NEEDED = FALSE
1670     ELSE
1680     ASSIGN #TKEY.DEPT = #TRAN.DEPT      /* >>> Build a
1690     ASSIGN #TKEY.NAME = #TRAN.NAME      /* >>> contiguous key
1700     ADD 1 TO #N.CNTT
1710     END-IF
1720 END-IF
1730 *
1740 DECIDE FOR FIRST CONDITION
1750     WHEN #MSTR-KEY < #TRAN-KEY           /* Must get next master
1760     IF NOT #MSTR-MATCHED                 /* Previously matched
1770     THEN                                 /* Process an unmatched master
1780     IF #TRACE-ALL                         /* >>>
1790     OR #TRACE-MSTR
1800     THEN
1810     WRITE (01)
1820     MSTR.DEPT
1830     2X #NAME
1840     2X MSTR.PHONE
1850     2X MSTR.PERSONNEL-ID
1860     2X MSTR.LANG

```

1.1 ZZMATCH (Natural) Source Listing

```

ZZLIST  CalSTRS - START Development          08/01/2003 09:13
        Natural Utilities                    ZZUtils v2
        Natural Source Module Listing        Page: 5
        Library: ZZUTIL                     Program: ZZMATCH   Natural: 3.1 0004
        Saved by STRGZ                       on 01/01/2003 02:01:01 Termid: 0052

```

```

1870          88T #N.CNTM (EM=Z,ZZZ,ZZ9)
1880          110T 'Extra Master'             /* Widow
1890          END-IF
1900          /*
1910          /* <<< Code 'widow' logic here. <<<
1920          /*
1930          ADD 1 TO #N.EXTM
1940          END-IF
1950          ASSIGN #TRAN-NEEDED = FALSE /* Apply to next master
1960          ESCAPE BOTTOM (RPT.)           /* Process next master
1970          WHEN #MSTR-KEY = #TRAN-KEY     /* Process a match
1980          IF #TRACE-ALL                  /* >>>
1990          OR #TRACE-MSTR
2000          OR #TRACE-TRAN
2010          THEN
2020          WRITE (01)
2030          MSTR.DEPT
2040          2X #NAME
2050          2X MSTR.PHONE
2060          2X MSTR.PERSONNEL-ID
2070          2X MSTR.LANG
2080          64T #TRAN.CUSTOMER
2090          74T #TRAN.COMMISSION (EM=Z,ZZZ,ZZ9.99)
2100          88T #N.CNTM (EM=Z,ZZZ,ZZ9)
2110          99T #N.CNTT (EM=Z,ZZZ,ZZ9)
2120          110T 'Matched MSTR/TRAN'
2130          END-IF
2140          ADD 1 TO #N.MCHT
2150          /*
2160          /* <<< Code 'match' logic here. <<<
2170          /*
2180          ASSIGN #MSTR-MATCHED = TRUE
2190          ASSIGN #TRAN-NEEDED = TRUE /* Try next transaction
2200 * >>> ESCAPE BOTTOM (RPT.)           /* Next master; force 1:1 ratio
2210          WHEN #MSTR-KEY > #TRAN-KEY     /* Process an unmatched tran
2220          IF #TRACE-ALL                  /* >>>
2230          OR #TRACE-TRAN
2240          THEN
2250          WRITE (01)
2260          #TRAN.DEPT
2270          2X #TRAN.NAME
2280          64T #TRAN.CUSTOMER
2290          74T #TRAN.COMMISSION (EM=Z,ZZZ,ZZ9.99)
2300          99T #N.CNTT (EM=Z,ZZZ,ZZ9)
2310          110T 'Extra Transaction'       /* Orphan
2320          END-IF
2330          ADD 1 TO #N.EXTT
2340          PERFORM ORPHAN
2350          ASSIGN #TRAN-NEEDED = TRUE /* Try next transaction
2360          WHEN NONE
2370          IGNORE
2380          END-DECIDE
2390          END-REPEAT
2400          END-WORK                          /* >>> END-READ

```

1.1 ZZMATCH (Natural) Source Listing

```

ZZLIST  CalSTRS - START Development          08/01/2003 09:13
        Natural Utilities                    ZZUtils v2
        Natural Source Module Listing        Page: 6
        Library: ZZUTIL                     Program: ZZMATCH   Natural: 3.1 0004
        Saved by STRGZ                       on 01/01/2003 02:01:01 Termid: 0052

```

```

2410 *
2420 IF #TRAN-NEEDED                      /* No waiting transaction
2430 OR #EOF                              /* Transaction end of file
2440 THEN
2450     IGNORE
2460 ELSE
2470     IF #TRACE-ALL                      /* >>>
2480     OR #TRACE-TRAN
2490     THEN
2500         WRITE (01)
2510             #TRAN.DEPT
2520             2X #TRAN.NAME
2530             64T #TRAN.CUSTOMER
2540             74T #TRAN.COMMISSION (EM=Z,ZZZ,ZZ9.99)
2550             99T #N.CNTT (EM=Z,ZZZ,ZZ9)
2560             110T 'Trailing TRAN'      /* Orphan
2570     END-IF
2580     ADD 1 TO #N.EXTT
2590     PERFORM ORPHAN
2600 END-IF
2610 *
2620 REPEAT WHILE NOT #EOF                /* Process extra TRAN records
2630     READ WORK 2 ONCE #TRAN            /* Same file number as (TR.)
2640     AT END OF FILE
2650     ESCAPE BOTTOM
2660     END-ENDFILE
2670     ADD 1 TO #N.CNTT
2680     IF #TRACE-ALL                      /* >>>
2690     OR #TRACE-TRAN
2700     THEN
2710         WRITE (01)
2720             #TRAN.DEPT
2730             2X #TRAN.NAME
2740             64T #TRAN.CUSTOMER
2750             74T #TRAN.COMMISSION (EM=Z,ZZZ,ZZ9.99)
2760             99T #N.CNTT (EM=Z,ZZZ,ZZ9)
2770             110T 'Extra TRAN > Last MSTR' /* Orphan
2780     END-IF
2790     ADD 1 TO #N.EXTT
2800     PERFORM ORPHAN
2810 END-REPEAT
2820 *
2830 *
2840 NEWPAGE (01)
2850 WRITE (01)
2860     //      #N.CNTM (EM=Z,ZZZ,ZZ9) 'Master Records Read'
2870     //      #N.CNTT (EM=Z,ZZZ,ZZ9) 'Transaction Records Read'
2880     ///     #N.EXTM (EM=Z,ZZZ,ZZ9) 'Unmatched Masters (Widows)'
2890     //      #N.EXTT (EM=Z,ZZZ,ZZ9) 'Unmatched Transactions (Orphans)'
2900     ///     #N.MCHT (EM=Z,ZZZ,ZZ9) 'Matched Transactions'
2910 *
2920 *
2930 WRITE (01) TITLE LEFT
2940     *PROGRAM (CD=BL)

```

1.1 ZZMATCH (Natural) Source Listing

```
ZZLIST  CalSTRS - START Development          08/01/2003 09:13
        Natural Utilities                    ZZUtils v2
        Natural Source Module Listing        Page: 7
        Library: ZZUTIL                      Program: ZZMATCH   Natural: 3.1 0004
        Saved by STRGZ                       on 01/01/2003 02:01:01 Termid: 0052
```

```
2950      10T 'LEN Consulting LLC'
2960      118T #DATE
2970      #TIME
2980      / 10T 'Natural Utilities'
2990      122T 'ZZUtils v2' (YEI)
3000      / 10T 'Sample Sequential Match Program' (BLI)
3010      120T 'Page:' *PAGE-NUMBER (01) (EM=ZZ,ZZ9)
3020      // 'Dept' /* <<<
3030      9T 'Name' /* <<<
3040      31T 'Phone' /* <<<
3050      48T 'Personnel' /* <<<
3060      58T 'Lang' /* <<<
3070      64T ' Cust' /* <<<
3080      74T ' Commission' /* <<<
3090      88T ' Master' /* <<<
3100      99T ' Trans' /* <<<
3110      110T 'Message' /* <<<
3120      /
3130 *
3140 *
3150 DEFINE SUBROUTINE ORPHAN
3160 *
3170 * <<< Code 'orphan' logic here. <<<
3180 *
3190 ESCAPE ROUTINE /* <<< Replace with 'orphan' logic
3200 END-SUBROUTINE
3210 END
```

*** End of list ***

1.2 ZZMATCH Adabas Command Listing

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 9.13 PAGE 1
 NEW: D-ZZUTIL -ZZMATCH ADABAS Command Listing OLD: D-ZZUTIL -ZZMATCH

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
1	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----				
1ZZADACMD	CalSTRS - START Development				
	Natural Utilities				
	Natural Module ADABAS Command Analysis				
	Library: ZZUTIL Modules: ZZMATCH - ZZMATCH				
	File				
	Search Buffer				
0Module	Line ADABAS Command				
0	----- End of Command List -----				

2.1 MTCHJCL (JCL) Source Listing

```
//STZZMTCH JOB (SU100T,ST01,STRGZ),'ZBROG 229-4386',
//          MSGCLASS=2,MSGLEVEL=(0,0),NOTIFY=&SYSUID
//*MAIN     JOBAFF=+DEVLMPMC,CLASS=E
//NAT       EXEC NATBT,DEPT=ST,DB=DEVL,SYSOUT=*,TIME=50,
//          PRM='AUTO=ON,MADIO=0,MAXCL=0,MT=0,IM=D,MAINPR=1,PS=55'
//CMPRINT   DD SYSOUT=*
//CMPRT01   DD SYSOUT=*
//SYSIN     DD *
LOGON ZZUTIL
R ZZMATCH
FIN
/*
//CMWKF01   DD DSN=STRGZ.JCL(MTCHMSTR),DISP=SHR    MSTR DATA
//CMWKF02   DD DSN=STRGZ.JCL(MTCHTRAN),DISP=SHR    TRAN DATA
//
```

3.1 MTCHMSTR (Control) Source Listing

0000050BOSTON	FRANK	202 555 1212	ACCTNGENG
0000060SMITH	JOHN	714 555 9876	ENTMNTGER
0000070SMYTHE	JON	562 555 6543	ENTMNTGER
0000080GERSTNER	LOU	204 555 2345	SALE01FRE
0000090SMITH	SAM	415 555 6382	SALE01ENG
0000001CAIN	ABLE	800 555 1234	TECH01ENG

4.1 MTCHTRAN (Control) Source Listing

SMITH	ENTMNT07290000025000
SMYTHE	ENTMNT00284000059900
GERSTNER	SALE0100185000025000
GERSTNER	SALE0102974100000000
GERSTNER	SALE0103297001500000
GERSTNER	SALE0104126800750000
SMITH	SALE0100039701000000
CAIN	TECH0101343000100000
SMITH	TECH0127032000085500
THOMPSON	TECH0100719000785000
THOMPSON	TECH0124900000456700
ZILDJAN	TECH1300020000012500

5.1 Sample Sequential Match Report (ZZMATCH)

ZZMATCH LEN Consulting LLC
Natural Utilities
Sample Sequential Match Program

08/01/03 09:13

ZZUtils v2

Page: 1

Dept	Name	Phone	Personnel	Lang	Cust	Commission	Master	Trans	Message
ACCTNG	BOSTON, FRANK	202 555 1212	00000050	ENG			1		Extra Master
ENTMNT	SMITH, JOHN	714 555 9876	00000060	GER	7290	250.00	2	1	Matched MSTR/TRAN
ENTMNT	SMYTHE, JON	562 555 6543	00000070	GER	284	599.00	3	2	Matched MSTR/TRAN
SALE01	GERSTNER, LOU	204 555 2345	00000080	FRE	185	250.00	4	3	Matched MSTR/TRAN
SALE01	GERSTNER, LOU	204 555 2345	00000080	FRE	2974	1,000,000.00	4	4	Matched MSTR/TRAN
SALE01	GERSTNER, LOU	204 555 2345	00000080	FRE	3297	15,000.00	4	5	Matched MSTR/TRAN
SALE01	GERSTNER, LOU	204 555 2345	00000080	FRE	4126	8,007,500.00	4	6	Matched MSTR/TRAN
SALE01	SMITH, SAM	415 555 6382	00000090	ENG	39	7,010,000.00	5	7	Matched MSTR/TRAN
TECH01	CAIN, ABLE	800 555 1234	00000001	ENG	1343	1,000.00	6	8	Matched MSTR/TRAN
TECH01	SMITH				27032	855.00		9	Trailing TRAN
TECH01	THOMPSON				719	7,850.00		10	Extra TRAN > Last MSTR
TECH01	THOMPSON				24900	4,567.00		11	Extra TRAN > Last MSTR
TECH13	ZILDJAN				20	125.00		12	Extra TRAN > Last MSTR

5.1 Sample Sequential Match Report (ZZMATCH)

ZZMATCH LEN Consulting LLC
Natural Utilities
Sample Sequential Match Program

08/01/03 09:13

ZZUtils v2

Page: 2

Dept	Name	Phone	Personnel	Lang	Cust	Commission	Master	Trans	Message
------	------	-------	-----------	------	------	------------	--------	-------	---------

6 Master Records Read

12 Transaction Records Read

1 Unmatched Masters (Widows)

4 Unmatched Transactions (Orphans)

8 Matched Transactions

6.1 ZZCUSTOM (Natural) Delta Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-ZZUTIL -ZZCUSTOM Delta Source Comparison OLD: D-ZZUTILS -ZZCUSTOM

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES																				TYPE	LEN	N-LN#	O-LN#	
	----	1	----	2	----	3	----	4	----	5	----	6	----	7	----	8	----	9	----	100	----				
I - 0100*	10/01/02		R. Zbrog		Client customization																	MAT=	9		
D - 0100*																						RPL=	1	00010	00010
I - 0200	2	#CLIENT (A30)	INIT	<'Client Corporation'>	/*	Your organization																MAT=	9		
D - 0200	2	#CLIENT (A30)	INIT	<'LEN Consulting LLC'>	/*	Your organization																RPL=	1	00020	00020
I - 0270	2	#ZZUTILIB (A8)	INIT	<'ZZUTIL'>	/*	ZZUtils Natural library																MAT=	6		
D - 0270	2	#ZZUTILIB (A8)	INIT	<'ZZUTILS'>	/*	ZZUtils Natural library																RPL=	1	00027	00027
I - 0360	2	#NUSER (A8)	INIT	<'XXBATCH'>	/*	Default Natural userid																MAT=	8		
D - 0360	2	#NUSER (A8)	INIT	<'NATBATCH'>	/*	Default Natural userid																RPL=	1	00036	00036
I - 0380	2	#NPSWD (A8)	INIT	<'XXBATCH'>	/*	Default Natural password																MAT=	1		
D - 0380	2	#NPSWD (A8)	INIT	<'NATBATCH'>	/*	Default Natural password																RPL=	1	00038	00038
I - 0410	2	#AUTO (L)	INIT	<TRUE>	/*	Auto logon																MAT=	2		
D - 0410	2	#AUTO (L)	INIT	<FALSE>	/*	Auto logon																RPL=	1	00041	00041
I - 2120	2	#ZZTDLIB (A8)	INIT	<' '>	/*	Profile repository/library																MAT=	170		
D - 2120	2	#ZZTDLIB (A8)	INIT	<'ZZTDPROF'>	/*	Profile repository/library																RPL=	1	00212	00212
I - 2170		'D' - 'E' - 'NATBT	' - 'PRODLIB	' - 'DEVL' - 'Development',																		MAT=	4		
D - 2170		'D' - 'E' - 'NATBATD	' - 'XXDEVL	' - 'DEVL' - 'Development',																		RPL=	4	00217	00217
I - 2180		'T' - 'E' - 'NATBT	' - 'DTSTLIB	' - 'DEVT' - 'Test',																					
D - 2180		'T' - 'E' - 'NATBATT	' - 'XXTEST	' - 'TEST' - 'Test',																					
I - 2190		'U' - 'E' - 'NATBT	' - 'TTSTLIB	' - 'TEST' - 'Acceptance'																					
D - 2190		'U' - 'E' - 'NATBATU	' - 'XXUSER	' - 'USER' - 'Acceptance',																					
I - 2200*		'P' - 'E' - 'NATBT	' - 'PDSTMAIN	' - 'PROD' - 'Production'																					
D - 2200		'P' - 'E' - 'NATBATP	' - 'XXPROD	' - 'PROD' - 'Production'																					
I - 2240		'DEPT=ST,DB=DEVL,TIME=50,SYSOUT=\$TRACE\$',	/*	D																		MAT=	3		
D - 2240		'TIME=50,SYSOUT=\$TRACE\$',	/*	D																		RPL=	4	00224	00224
I - 2250		'DEPT=ST,DB=DEVT,TIME=50,SYSOUT=\$TRACE\$',	/*	T																					
D - 2250		'TIME=50,SYSOUT=\$TRACE\$',	/*	T																					
I - 2260		'DEPT=ST,DB=TEST,TIME=50,SYSOUT=\$TRACE\$',	/*	U																					
D - 2260		'TIME=50,SYSOUT=\$TRACE\$',	/*	U																					
I - 2270		'DEPT=ST,DB=PROD,TIME=50,SYSOUT=\$TRACE\$',	/*	P																					
D - 2270		'TIME=50,SYSOUT=\$TRACE\$',	/*	P																					
I - 2370	2	#COBOL (L)	INIT	<FALSE>	/*	Include COBOL (#3GL subset)																MAT=	9		
D - 2370	2	#COBOL (L)	INIT	<TRUE>	/*	Include COBOL (#3GL subset)																RPL=	1	00237	00237
I - 2460	2	#JCLMEM (A8)	INIT	<'ZZTDJXXX'>	/*	JCL source member																MAT=	8		
D - 2460	2	#JCLMEM (A8)	INIT	<' '>	/*	JCL source member (ZZTDJMVS)																RPL=	1	00246	00246
																						MAT=	18		

6.2 ZZCUSTOM (Natural) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-ZZUTIL -ZZCUSTOM CHNGL Source Comparison OLD: D-ZZUTILS -ZZCUSTOM

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----+				
0010	*****	MAT=	9	00001	00001
0020	* Subpgm: ZZCUSTOM (c) 2002 LEN Consulting LLC			00002	00002
0030	* System: ZZUTILS			00003	00003
0040	* Function: Client Customization			00004	00004
0050	* Author: Ralph G. Zbrog			00005	00005
0060	* Written: 11/20/01			00006	00006
0070	*****			00007	00007
0080	* Date Name Summary of Changes			00008	00008
0090	***** ***** *****			00009	00009
I - 0100	* 08/01/03 R. Zbrog Client customization	RPL=	1	00010	00010
D - 0100	*				
0110	*****	MAT=	9	00011	00011
0120	*			00012	00012
0130	DEFINE DATA			00013	00013
0140	PARAMETER USING ZZPDA			00014	00014
0150	LOCAL			00015	00015
0160	1 #INIT			00016	00016
0170	/*			00017	00017
0180	/* Client definition:			00018	00018
0190	/*			00019	00019
I - 0200	2 #CLIENT (A30) INIT <'Client Organization'> /* Your organization	RPL=	1	00020	00020
D - 0200	2 #CLIENT (A30) INIT <'LEN Consulting LLC'> /* Your organization				
0210	2 #GREET (L) INIT <TRUE> /* Invoke salutation routine	MAT=	6	00021	00021
0220	2 #ZZNAME (L) INIT <FALSE> /* Invoke user name routine			00022	00022
0230	2 #NAMFMT (A2) INIT <'FL'> /* LastFirst/FirstLast			00023	00023
0240	/*			00024	00024
0250	/* Natural Security			00025	00025
0260	/*			00026	00026
I - 0270	2 #ZZUTILIB (A8) INIT <'ZZUTIL'> /* ZZUtils Natural library	RPL=	1	00027	00027
D - 0270	2 #ZZUTILIB (A8) INIT <'ZZUTILS'> /* ZZUtils Natural library				
0280	2 #STEPLIB (A1) INIT <'Y'> /* Y Individual utilities will	MAT=	8	00028	00028
0290	/* be found/executed in the			00029	00029
0300	/* Steplib chain			00030	00030
0310	/* N Not in Steplib; must logon			00031	00031
0320	/* to #zzutilib			00032	00032
0330	/* ' ' Determined based on current			00033	00033
0340	/* online Steplib; presume			00034	00034
0350	/* same Steplib in batch.			00035	00035
I - 0360	2 #NUSER (A8) INIT <'NTBATCH'> /* Default Natural userid	RPL=	1	00036	00036
D - 0360	2 #NUSER (A8) INIT <'NATBATCH'> /* Default Natural userid				
0370	/* If blank, will use *USER.	MAT=	1	00037	00037
I - 0380	2 #NPSWD (A8) INIT <'NTBATCH'> /* Default Natural password	RPL=	1	00038	00038
D - 0380	2 #NPSWD (A8) INIT <'NATBATCH'> /* Default Natural password				
0390	/* If blank, will request	MAT=	2	00039	00039
0400	/* on-line response.			00040	00040
I - 0410	2 #AUTO (L) INIT <TRUE> /* Auto logon	RPL=	1	00041	00041
D - 0410	2 #AUTO (L) INIT <FALSE> /* Auto logon				
0420	2 #JPSWD (L) INIT <TRUE> /* Require JCL password for RJE?	MAT=	170	00042	00042

6.2 ZZCUSTOM (Natural) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 2
 NEW: D-ZZUTIL -ZZCUSTOM CHNGL Source Comparison OLD: D-ZZUTILS -ZZCUSTOM

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
0430	/*			00043	00043
0440	/*			00044	00044
0450	/* Library specification restrictions:			00045	00045
0460	/*			00046	00046
0470	/* Restricting a utility enforces Natural			00047	00047
0480	/* Security; you must be logged onto the			00048	00048
0490	/* appropriate application library to access			00049	00049
0500	/* the specified module, and the utility must			00050	00050
0510	/* be executable from within the Steplib chain.			00051	00051
***	CHANGE SECTION CUTOFF *****				
2020	/* EBCDIC: 99999999			00202	00202
2030	2 #EXCL (A8/50) INIT <' '> /* Excluded libraries			00203	00203
2040	2 #AUTHG (A8/10) INIT <' '> /* Authorized group			00204	00204
2050	2 #AUTHU (A8/10) INIT <' '> /* Authorized users			00205	00205
2060	2 #AUTHL (A8) INIT <' '> /* Authorized library			00206	00206
2070	/*			00207	00207
2080	/*			00208	00208
2090	/* ZZTDOC parameters:			00209	00209
2100	/*			00210	00210
2110	2 #ZZTDESC (L) INIT <TRUE> /* Secure default profile			00211	00211
I - 2120	2 #ZZTDLIB (A8) INIT <' '> /* Profile repository/library	RPL=	1	00212	00212
D - 2120	2 #ZZTDLIB (A8) INIT <'ZZTDPDEF'> /* Profile repository/library				
2130	/* eg ZZTDPDEF				
2140	2 #ENVIRON (A42/25) INIT /* First entry: development	MAT=	4	00213	00213
2150	/* Cd Cls JCL Proc NATLIB.. Abbr Description...			00214	00214
2160	<			00215	00215
I - 2170	'D' - 'E' - 'NATBT' - 'DEVLLIB' - 'DEVL' - 'Development',	RPL=	4	00216	00216
D - 2170	'D' - 'E' - 'NATBATD' - 'XXDEVL' - 'DEVL' - 'Development',				
I - 2180	'T' - 'E' - 'NATBT' - 'TESTLIB' - 'DEVT' - 'Test',			00217	00217
D - 2180	'T' - 'E' - 'NATBATT' - 'XXTEST' - 'TEST' - 'Test',				
I - 2190	'U' - 'E' - 'NATBT' - 'USERLIB' - 'TEST' - 'Acceptance'			00218	00218
D - 2190	'U' - 'E' - 'NATBATU' - 'XXUSER' - 'USER' - 'Acceptance',				
I - 2200	'P' - 'E' - 'NATBT' - 'PRODLIB' - 'PROD' - 'Production'			00219	00219
D - 2200	'P' - 'E' - 'NATBATP' - 'XXPROD' - 'PROD' - 'Production'				
2210	>			00220	00220
2220	2 #ESYMB (A50/25) INIT /* Symbolics for Natural PROC	MAT=	3	00221	00221
2230	<			00222	00222
I - 2240	'DEPT=IT,DB=DEVL,TIME=50,SYSOUS=\$TRACE\$', /* D	RPL=	4	00223	00223
D - 2240	'TIME=50,SYSOUS=\$TRACE\$', /* D				
I - 2250	'DEPT=IT,DB=TEST,TIME=50,SYSOUS=\$TRACE\$', /* T			00224	00224
D - 2250	'TIME=50,SYSOUS=\$TRACE\$', /* T				
I - 2260	'DEPT=IT,DB=USER,TIME=50,SYSOUS=\$TRACE\$', /* U			00225	00225
D - 2260	'TIME=50,SYSOUS=\$TRACE\$', /* U				
I - 2270	'DEPT=IT,DB=PROD,TIME=50,SYSOUS=\$TRACE\$', /* P			00226	00226
D - 2270	'TIME=50,SYSOUS=\$TRACE\$', /* P				
2280	>			00227	00227
2290	2 #EPARM (A50/25) INIT /* Parameters for Natural PROC	MAT=	9	00228	00228
				00229	00229

6.2 ZZCUSTOM (Natural) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 3
 NEW: D-ZZUTIL -ZZCUSTOM CHNGL Source Comparison OLD: D-ZZUTILS -ZZCUSTOM

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
2300	<			00230	00230
2310	'MADIO=0,MAXCL=0,MT=0', /* D			00231	00231
2320	'MADIO=0,MAXCL=0,MT=0', /* T			00232	00232
2330	'MADIO=0,MAXCL=0,MT=0', /* U			00233	00233
2340	'MADIO=0,MAXCL=0,MT=0', /* P			00234	00234
2350	>			00235	00235
2360	2 #3GL (L) INIT <TRUE> /* Include other module types			00236	00236
I - 2370	2 #COBOL (L) INIT <FALSE> /* Include COBOL (#3GL subset)	RPL=	1	00237	00237
D - 2370	2 #COBOL (L) INIT <TRUE> /* Include COBOL (#3GL subset)				
2380	2 #COBCMP (A8) INIT <'IGYCRCTL'> /* COBOL compiler	MAT=	8	00238	00238
2390	2 #NATCMP (A8) INIT <'ZZLIST'> /* Natural "compiler" listing			00239	00239
2400	/* vs standard source listing			00240	00240
2410	2 #NATPRM (A40) INIT <'N'> /* Natural "compiler" parameters			00241	00241
2420	/*			00242	00242
2430	/*			00243	00243
2440	/* JCL/Script parameters:			00244	00244
2450	/*			00245	00245
I - 2460	2 #JCLMEM (A8) INIT <'ZZTDJSTR'> /* JCL source member	RPL=	1	00246	00246
D - 2460	2 #JCLMEM (A8) INIT <' '> /* JCL source member (ZZTDJMVS)				
2470	2 #COMPARE (A8) INIT <'ISRSUPC'> /* SuperC	MAT=	18	00247	00247
2480	2 #SORT (A8) INIT <'SORT'> /* DFSort/Sort			00248	00248
2490	2 #DUMMY (A8) INIT <'IEFBR14'> /* Dummy executable			00249	00249
2500	2 #HOLDN (A3) INIT <'NO'>			00250	00250
2510	2 #HOLDY (A3) INIT <'YES'>			00251	00251
2520	2 #TRACE (A1) INIT <'2'> /* Hold print class			00252	00252
2530	2 #DCLS (A1) INIT <'N'> /* Dummy print class			00253	00253
2540	2 #DSPN (A50) INIT <'(NEW,CATLG,DELETE)'> /* New disposition			00254	00254
2550	2 #DSPM (A50) INIT <'(MOD,CATLG,DELETE)'> /* Mod disposition			00255	00255
2560	2 #DSPS (A50) INIT <'SHR'> /* SHR disposition			00256	00256

*** CHANGE SECTION CUTOFF *****

6.2 ZZCUSTOM (Natural) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 4
NEW: D-ZZUTIL -ZZCUSTOM CHNGL Source Comparison OLD: D-ZZUTILS -ZZCUSTOM

LINE COMPARE SUMMARY AND STATISTICS

247 NUMBER OF LINE MATCHES	17 TOTAL CHANGES (PAIRED+NONPAIRED CHNG)
0 REFORMATTED LINES	17 PAIRED CHANGES (REFM+PAIRED INS/DEL)
17 NEW FILE LINE INSERTIONS	0 NON-PAIRED INSERTS
17 OLD FILE LINE DELETIONS	0 NON-PAIRED DELETES
264 NEW FILE LINES PROCESSED	
264 OLD FILE LINES PROCESSED	

LISTING-TYPE = CHNG COMPARE-COLUMNS = 5:132 LONGEST-LINE = 132
PROCESS OPTIONS USED: REFMVVR

THE FOLLOWING PROCESS STATEMENTS (USING COLUMNS 1:72) WERE PROCESSED:
SLIST OFF

ISRS004I LISTING LINES MAY BE TRUNCATED DUE TO LIMITING OUTPUT LINE WIDTH.

6.3 ZZCUSTOM Adabas Command Listing

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-ZZUTIL -ZZCUSTOM ADABAS Command Listing OLD: D-ZZUTILS -ZZCUSTOM

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----				
	1ZZADACMD CalSTRS - START Development 08/01/2003 09:13	MAT=	3	00001	00001
	Natural Utilities ZZUtils v2			00002	00002
	Natural Module ADABAS Command Analysis Page: 1			00003	00003
I -	Library: ZZUTIL Modules: ZZCUSTOM - ZZCUSTOM Params: ,0,Y,Y,N	RPL=	1	00004	00004
D -	Library: ZZUTILS Modules: ZZCUSTOM - ZZCUSTOM Params: ,0,Y,Y,N				
	0Module Line ADABAS Command File Search Buffer	MAT=	2	00005	00005
	0 ----- End of Command List -----			00006	00006

7.1 RGZNUMB (Natural) Delta Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-WORK01 -RGZNUMB Delta Source Comparison OLD: D-ZZUTILS -RGZFIND

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----				
		MAT=	6		
I -	0070FIND NUMBER CRC WITH REASON-CODE = 'Z'	RPL=	1	00007	00007
D -	0070FIND CRC WITH REASON-CODE = 'Z'				
		MAT=	1		
D -	0090END-FIND	DEL=	1	00009	00009
		MAT=	1		

7.2 RGZNUMB (Natural) LONGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-WORK01 -RGZNUMB LONGL Source Comparison OLD: D-ZZUTILS -RGZFIND

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----+				
	0010DEFINE DATA LOCAL	MAT=	6	00001	00001
	00201 CRC VIEW CUST-REASON-CODE			00002	00002
	0030 2 REASON-CODE			00003	00003
	0040END-DEFINE			00004	00004
	0050*			00005	00005
	0060F.			00006	00006
I - 0070	FIND NUMBER CRC WITH REASON-CODE = 'Z'	RPL=	1	00007	00007
D - 0070	FIND CRC WITH REASON-CODE = 'Z'				
	0080DISPLAY *NUMBER (F.)	MAT=	1	00008	00008
D - 0090	END-FIND	DEL=	1	00009	00009
	0090END	MAT=	1	00009	00010

7.2 RGZNUMB (Natural) LONGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 2
NEW: D-WORK01 -RGZNUMB LONGL Source Comparison OLD: D-ZZUTILS -RGZFIND

LINE COMPARE SUMMARY AND STATISTICS

7 NUMBER OF LINE MATCHES	3 TOTAL CHANGES (PAIRED+NONPAIRED CHNG)
1 REFORMATTED LINES	2 PAIRED CHANGES (REFM+PAIRED INS/DEL)
1 NEW FILE LINE INSERTIONS	0 NON-PAIRED INSERTS
2 OLD FILE LINE DELETIONS	1 NON-PAIRED DELETES
9 NEW FILE LINES PROCESSED	
10 OLD FILE LINES PROCESSED	

LISTING-TYPE = LONG COMPARE-COLUMNS = 5:132 LONGEST-LINE = 132
PROCESS OPTIONS USED: REFMOVR

THE FOLLOWING PROCESS STATEMENTS (USING COLUMNS 1:72) WERE PROCESSED:
SLIST OFF

ISRS004I LISTING LINES MAY BE TRUNCATED DUE TO LIMITING OUTPUT LINE WIDTH.

7.3 RGZNUMB Adabas Command Listing

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-WORK01 -RGZNUMB ADABAS Command Listing OLD: D-ZZUTILS -RGZFIND

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----				
	1ZZADACMD LEN Consulting LLC 08/01/2003 09:13	MAT=	3	00001	00001
	Natural Utilities ZZUtils v2			00002	00002
	Natural Module ADABAS Command Analysis Page: 1			00003	00003
I -	Library: WORK01 Modules: RGZNUMB - RGZNUMB Parms: ,0,Y,Y,N	RPL=	1	00004	00004
D -	Library: ZZUTILS Modules: RGZFIND - RGZFIND Parms: ,0,Y,Y,N				
	0Module Line ADABAS Command File Search Buffer	MAT=	1	00005	00005
I -	0RGZNUMB S1 Find Number 0/121 CRC-ADABAS BB,8,A.	RPL=	1	00006	00006
D -	0RGZFIND 0060 S1 Find 0/121 CRC-ADABAS BB,8,A.				
	----- End of Command List -----	MAT=	1	00007	00007

8.1 RGZLDA (Natural) Source Listing

ZZLIST LEN Consulting LLC 08/01/2003 09:13
Natural Utilities ZZUtils v2
Natural Source Module Listing Page: 1
Library: ZZUTILS Data Area: RGZLDA Natural: 3.1 0004
Saved by STRGZ on 02/10/15 18:01:30 Termid: STRGZ

L	R	Field Name	F	Len	Occ/Comment	Begin	End
1		GRP					
2		#ALPHA	A	10		1	10
2		#NUMERIC	N	7.2		11	19
2		#PACKED	P	7.2		20	24
2		#VECTOR	A	10	1:10	25	124
2		#DATE	D		/*4 bytes	125	128
2		#TIME	T		/*7 bytes	129	135
2		#CV	C		/*2 bytes	136	137
2		#FLOAT	F	8		138	145
2		#BINARY	B	1		146	146
*** End of list ***							

8.2 RGZLDA Adabas Command Listing

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: D-ZZUTILS -RGZLDA ADABAS Command Listing OLD: D-ZZUTILS -RGZLDA

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
1	1ZZADACMD LEN Consulting LLC	MAT=	6	00001	00001
	Natural Utilities			00002	00002
	Natural Module ADABAS Command Analysis			00003	00003
	Library: ZZUTILS Modules: RGZLDA - RGZLDA			00004	00004
0	Module Line ADABAS Command			00005	00005
0	File Search Buffer			00006	00006
	----- End of Command List -----				

9.1 NEWBIE (COBOL) Delta Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09.13 PAGE 1
 NEW: STRGZ.COBOL(NEWBIE) OLD: STRGZ.COBOL(OLDIE)

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----				
		MAT=	128		
I - 000129	* 01280000	INS=	3	00129	00129
I - 000130	C2307 * 01/25/01 B. RUBBLE CHANGE WS-RETURN-LENGTH TO ALLOW FOR *01280000			00130	
I - 000131	* C2307 PREMISE ID EXPANSION. *01280000			00131	
		MAT=	56		
I - 000189	C2307 *** 05 WS-RETURN-LENGTH PIC S9(04) VALUE +412 COMP. 01760000	INS=	2	00188	00185
I - 000190	C2307 05 WS-RETURN-LENGTH PIC S9(04) VALUE +436 COMP. 01760000			00189	
D - 000186	05 WS-RETURN-LENGTH PIC S9(04) VALUE +412 COMP. 01760000	DEL=	1	00188	00185
		MAT=	1526		

9.2 NEWBIE (COBOL) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09:13 PAGE 1
 NEW: STRGZ.COBOL(NEWBIE) OLD: STRGZ.COBOL(OLDIE)

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES										TYPE	LEN	N-LN#	O-LN#
	1	2	3	4	5	6	7	8	9	100				
	000119	DP058 *				(3) ADD CODE TO GO TO XYZ SYSTEM			*01190000				00119	00119
	000120	*							*01200000				00120	00120
	000121	AD047 *	08/03/93	RST		OBTAIN IPS KEY WITH ACCOUNT ID			*01210000				00121	00121
	000122	*							*01220000				00122	00122
	000123	DP076 *	02/17/94	UVW		CONVERT TO CB2			*01230000				00123	00123
	000124	*				IF RESTART = XY1A, POPULATE COMM FIELD			*01240000				00124	00124
	000125	*							*01250000				00125	00125
	000126	XYZFIX*	01/30/95	UVW		ADD CODE TO EDIT FOR XYZ ON ALL DROPS			*01260000				00126	00126
	000127	*				ASSOCIATED WITH THE PENDING SERVICE			*01270000				00127	00127
	000128	*				BEING DELETED			*01280000				00128	00128
I -	000129	*							*01280000	INS=	3	00129	00129	
I -	000130	C2307 *	01/25/01	B. RUBBLE		CHANGE WS-RETURN-LENGTH TO ALLOW FOR			*01280000				00130	
I -	000131	*	C2307			PREMISE ID EXPANSION.			*01280000				00131	
	000132	*							*01280000	MAT=	56	00132	00129	
	000133	*****							*01290000				00133	00130
	000134	ENVIRONMENT DIVISION.							01300000				00134	00131
	000135	*****							01310000				00135	00132
	000136	CONFIGURATION SECTION.							01320000				00136	00133
	000137	*****							01330000				00137	00134
	000138	DATA DIVISION.							01340000				00138	00135
	000140	*****							01360000				00139	00136
	000141	*Y2K BEYOND 1999 MODIFIED ON 10/01/1998											00140	00137
	000142	WORKING-STORAGE SECTION.							01370000				00141	00138
*** CHANGE SECTION CUTOFF *****														
	000179		05	WS-SHOW-RESTART.					01660000				00178	00175
	000180		10	WS-SHOW-RESTART-FIRST PIC X(02) VALUE SPACES.					01670000				00179	00176
	000181		10	WS-SHOW-RESTART-LAST PIC X(02) VALUE SPACES.					01680000				00180	00177
	000182		05	WS-SHOW-RESTART-FINAL PIC X(04) VALUE SPACES.					01690000				00181	00178
	000183		05	WS-TO-PGM PIC X(08) VALUE SPACES.					01700000				00182	00179
	000184		05	WS-UNDERSCORE PIC X(30) VALUE ALL '-'.					01710000				00183	00180
	000185		05	IC PIC S9(04) VALUE -1 COMP SYNC.					01720000				00184	00181
	000186		05	WS-ABSTIME PIC S9(15) VALUE +0 COMP-3.					01730000				00185	00182
	000187	JV *	05	WS-RETURN-LENGTH PIC S9(04) VALUE +367 COMP.					01740000				00186	00183
	000188	RS9210***	05	WS-RETURN-LENGTH PIC S9(04) VALUE +368 COMP.					01750000				00187	00184
I -	000189	C2307 ***	05	WS-RETURN-LENGTH PIC S9(04) VALUE +412 COMP.					01760000	INS=	2	00188	00185	
I -	000190	C2307	05	WS-RETURN-LENGTH PIC S9(04) VALUE +436 COMP.					01760000				00189	
D -	000186		05	WS-RETURN-LENGTH PIC S9(04) VALUE +412 COMP.					01760000	DEL=	1	00188	00185	
	000191		05	WS-CICS-STATUS PIC S9(08) VALUE +0 COMP.					01770000	MAT=	1526	00190	00186	
	000192		05	WS-SUB PIC S9(04) VALUE +0 COMP.					01780000				00191	00187
	000193		05	WS-ERROR-SUB PIC S9(04) VALUE +0 COMP.					01790000				00192	00188
	000194		05	WS-ERROR-PRIORITY PIC S9(04) VALUE +0 COMP.					01800000				00193	00189
	000195	RS9210****	05	WS-QUEUE-LENGTH PIC S9(04) VALUE +869 COMP.					01810000				00194	00190
	000196	RS9210	05	WS-QUEUE-LENGTH PIC S9(04) VALUE +913 COMP.					01820000				00195	00191
	000197		05	WS-IC-SUB PIC S9(04) VALUE +0 COMP.					01830000				00196	00192
	000198	RB0720	05	WS-CR PIC X(02) VALUE 'CR'.					01840000				00197	00193
	000199	RB0720	05	WS-CREDIT PIC X(06) VALUE 'CREDIT'.					01850000				00198	00194
	000200	JP0824 01	W-WORK-NAD-KEY	PIC X(24) VALUE ZEROS.					01860000				00199	00195

9.2 NEWBIE (COBOL) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09:13 PAGE 2
NEW: STRGZ.COBOL(NEWBIE) OLD: STRGZ.COBOL(OLDIE)

LISTING OUTPUT SECTION (LINE COMPARE)

ID	SOURCE LINES	TYPE	LEN	N-LN#	O-LN#
----	-----1-----2-----3-----4-----5-----6-----7-----8-----9-----100-----+				
***	CHANGE SECTION CUTOFF *****				

9.2 NEWBIE (COBOL) CHNGL Source Comparison

ISRSUPC - MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR OS/390 2003/08/01 09:13 PAGE 3
NEW: STRGZ.COBOL(NEWBIE) OLD: STRGZ.COBOL(OLDIE)

LINE COMPARE SUMMARY AND STATISTICS

1710 NUMBER OF LINE MATCHES	5 TOTAL CHANGES (PAIRED+NONPAIRED CHNG)
0 REFORMATTED LINES	1 PAIRED CHANGES (REFM+PAIRED INS/DEL)
5 NEW FILE LINE INSERTIONS	4 NON-PAIRED INSERTS
1 OLD FILE LINE DELETIONS	0 NON-PAIRED DELETES
1715 NEW FILE LINES PROCESSED	
1711 OLD FILE LINES PROCESSED	

LISTING-TYPE = CHNG COMPARE-COLUMNS = 24:89 LONGEST-LINE = 132
PROCESS OPTIONS USED: REFMVVR

THE FOLLOWING PROCESS STATEMENTS (USING COLUMNS 1:72) WERE PROCESSED:
SLIST OFF

ISRS004I LISTING LINES MAY BE TRUNCATED DUE TO LIMITING OUTPUT LINE WIDTH.

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

DATE 08/01/2003 TIME 09:13:54 PAGE 1

INVOCATION PARAMETERS:

OPT,APOST,DYNAM,LIB,TRUNC(BIN),NOOBJECT,XREF,NOSOURCE,NOCOMPILE,NOMAP,NOOFFSET,NOSEQUENCE

OPTIONS IN EFFECT:

NOADATA
NOADV
NOANALYZE
APOST
ARITH(COMPAT)
NOAWO
BUFSIZE(16384)
NOCICS
NOCMPR2
NOCOMPILE
NOCURRENCY
DATA(31)
NODATEPROC
NODBCS
NODECK
NODIAGTRUNC
NODLL
NODUMP
DYNAM
NOEXIT
NOEXPORTALL
FASTSRT
FLAG(I,W)
NOFLAGMIG
NOFLAGSTD
NOIDLGEN
INTDATE(ANSI)
LANGUAGE(UE)
LIB
LINECOUNT(60)
NOLIST
NOMAP
NONAME
NONUMBER
NUMPROC(NOPFD)
NOOBJECT
NOOFFSET
OPTIMIZE(STD)
OUTDD(SYSOUT)
PGMNAME(COMPAT)
NORENT
RMODE(AUTO)
NOSEQUENCE
SIZE(MAX)
NOSOURCE
SPACE(1)
NOSQL
NOSSRANGE
NOTERM
NOTEST
TRUNC(BIN)
NOTYPECHK
NOVBREF
NOWORD

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

DATE 08/01/2003 TIME 09:13:54 PAGE 2

XREF(FULL)
YEARWINDOW(1900)
ZWB

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

DATE 08/01/2003 TIME 09:13:54 PAGE 3

LINEID MESSAGE CODE LIBRARY PHASE MESSAGE TEXT

404 IGYLI0048-S THE MEMBER WAS NOT FOUND IN THE "COPY" LIBRARY. SKIPPED TO THE PERIOD TERMINATING THE "COPY" STATEMENT.

MESSAGES	TOTAL	INFORMATIONAL	WARNING	ERROR	SEVERE	TERMINATING
PRINTED:	1				1	

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 4

AN "M" PRECEDING A DATA-NAME REFERENCE INDICATES THAT THE DATA-NAME IS MODIFIED BY THIS REFERENCE.

DEFINED	CROSS-REFERENCE OF DATA NAMES	REFERENCES
258	DFHAID	
347	DFHALL	
358	DFHBASE	
346	DFHBKTRN	
360	DFHBLINK	
351	DFHBLUE	
326	DFHBMASB	826 827 828 829 830 831 832 833 1172 1173 1174 1175 1176 1177 1178 1179 1190 1191 1192 1193 1194 1195 1196 1197 1198 1276
325	DFHBMAF	
317	DFHBMASK	1027 1028 1041 1043 1045 1047 1055 1056 1059
321	DFHBMBRY	765 775 788 801 825 1171 1275
328	DFHBMCUR	
322	DFHBMDAR	
333	DFHBMDDET	
329	DFHBMEC	
327	DFHBMEOF	603
330	DFHBMFLG	
323	DFHBMFSE	
316	DFHBMPCR	
313	DFHBMPEM	
315	DFHBMPEFF	
314	DFHBMPNL	
324	DFHBMPRF	
320	DFHBMPRO	1072 1075 1076 1081 1083 1085 1087 1090 1092
338	DFHBMPSI	
337	DFHBMPSO	
334	DFHBMPSO-BIN	336
312	DFHBMSCA	
319	DFHBMUNN	
318	DFHBMUNP	1021
388	DFHBOX	
384	DFHBOX-BIN	386
261	DFHCLEAR	498
262	DFHCLRP	
340	DFHCOLOR	
457	DFHCOMMAREA.	501 522 539
332	DFHCURSR	
350	DFHDFCOL	
379	DFHDFFR	
359	DFHDFHI	
349	DFHDFT	
260	DFHENTER	570
331	DFHERASE	
348	DFHERROR	
354	DFHGREEN	
342	DFHHLT	
380	DFHLEFT	
364	DFHMENT	
377	DFHMET	
365	DFHMF	
378	DFHMFET	
363	DFHMFIL	
376	DFHMF	
265	DFHMSRE	

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 5

DEFINED	CROSS-REFERENCE OF DATA NAMES	REFERENCES
375	DFHMT	
357	DFHNEUTR	
259	DFHNULL	
391	DFHOPAQ	
264	DFHOPID	
345	DFHOUTLN	
381	DFHOVER	
268	DFHPA1	499
269	DFHPA2	500
270	DFHPA3	
263	DFHPEN	
271	DFHPF1	566
280	DFHPF10	
281	DFHPF11	
282	DFHPF12	
283	DFHPF13	
284	DFHPF14	
285	DFHPF15	
286	DFHPF16	
287	DFHPF17	
288	DFHPF18	
289	DFHPF19	
272	DFHPF2	
290	DFHPF20	
291	DFHPF21	
292	DFHPF22	
293	DFHPF23	
294	DFHPF24	
273	DFHPF3	541
274	DFHPF4	
275	DFHPF5	551 756 1546 1580
276	DFHPF6	
277	DFHPF7	558
278	DFHPF8	562
279	DFHPF9	
353	DFHPINK	
373	DFHPROTI	
374	DFHPROTN	
341	DFHPS	
352	DFHRED	
361	DFHREVR	
382	DFHRIGHT	
339	DFHSA	
389	DFHSOSI	
266	DFHSTRF	
390	DFHTRANS	
267	DFHTRIG	
355	DFHTURQ	
383	DFHUNDER	
362	DFHUNDLN	
367	DFHUNIMD	
371	DFHUNINT	
366	DFHUNNOD	
372	DFHUNNON	
369	DFHUNNUB	

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 6

DEFINED	CROSS-REFERENCE OF DATA NAMES	REFERENCES
368	DFHUNNUM	
344	DFHVAL	
356	DFHYELLO	
343	DFH3270	
212	END-XYZ-EDIT-FOR-ORDER	1228 1322
185	IC	574 689 729 733 735 938 1007 1111 1113 1180 1199 1284
407	MESSAGE-MODULE-COMMAREA	
441	PEND-FOUND	1508 1536 1570
213	START-XYZ-EDIT-FOR-ORDER . . .	M1226
200	W-WORK-NAD-KEY	201 M895
202	W-WORK-NAD-LVL-1	896
203	W-WORK-NAD-LVL-2	897
204	W-WORK-NAD-LVL-3	898
205	W-WORK-NAD-LVL-4	899
403	W-XY5-NAD-COMMAREA	
186	WS-ABSTIME	
208	WS-ACCESS-PDCT-KEY	
191	WS-CICS-STATUS	666 672 678 985 995 1162 1223 1231 1305 1314 1507 1513 1533 1543 1568 1577 1605 1625 1644 1665 1689
411	WS-COMMAREA.	M501 M522 M539
228	WS-COMP-REG-HOLD	944 M1024
227	WS-COMP-REG-WA	
226	WS-COMP-REG-WORK-AREA.	1595 M1629 1679
418	WS-CONFIRM-DELETE.	566 718 731
417	WS-CONFIRM-DELETE-FLAG	M728 M810 M1104 M1110 M1114
198	WS-CR	
199	WS-CREDIT.	787 800 957
422	WS-CURRENT-PAGE.	929 M932 971 M974 975 M1608
158	WS-DATE.	1407
217	WS-DISC-XYZ-MSG.	1271
443	WS-END	
211	WS-END-XYZ-EDIT-FLAG	M1311 M1315 M1317
416	WS-EOF	971
415	WS-EOF-FLAG.	M554 M1535 M1569
194	WS-ERROR-PRIORITY.	717 727 M758 766 M767 776 M777 789 M790 802 M803 1109
193	WS-ERROR-SUB	729 M768 M778 M791 M804 1111
222	WS-ERRORS	
221	WS-ERRORS-FLAG	
220	WS-FLAGS	
165	WS-GET-IPS-KEY	908
164	WS-GET-NAD-KEY	887
197	WS-IC-SUB	
423	WS-LAST-PAGE	971 975 1608
421	WS-LAST-PEND-KEY	977 M1065
161	WS-MAP-ID	
163	WS-NAD-USER	
168	WS-PEND-COMP-REG	M530 M534 M552
173	WS-PEND-DATE	M662
440	WS-PEND-FOUND.	M609 M1019
167	WS-PEND-KEY.	M851 M977 M1136
175	WS-PEND-RESTART.	M1050
176	WS-PEND-RESTART-FIRST.	1051
178	WS-PEND-RESTART-LAST	1052
169	WS-PEND-SUB-KEY	
174	WS-PEND-TIME	M663

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 7

DEFINED	CROSS-REFERENCE OF DATA NAMES	REFERENCES
170	WS-PEND-USER	M526 M553 1547 1581
166	WS-PEND-VIEW-ALL	529 667 979 1061
162	WS-PGM-ID.	525 542 865 1482 1699
157	WS-PROGRAM-CONSTANTS	
425	WS-QUEUE-ID	
196	WS-QUEUE-LENGTH	
426	WS-QUEUE-TERM.	M502 M527
427	WS-QUEUE-TRAN.	M503 M528
190	WS-RETURN-LENGTH	M1463 1463
433	WS-SAVE-COMP-REG	M944 M1023
437	WS-SAVE-CREATE-DATE.	M953 M1037 M1077
438	WS-SAVE-CREATE-TIME.	M1039 M1079
429	WS-SAVE-MAP	
432	WS-SAVE-PEND-KEY	851 1136
431	WS-SAVE-RESTART-PGM.	787 800 M957 M959 M1049 M1088
430	WS-SAVE-SELECTION.	M636 761 762 763 764 774 784 799 824 M1022 1133 M1169 M1187 M1273
428	WS-SAVE-TABLE.	M523 M617 M665
434	WS-SAVE-USER	M1025 M1073
439	WS-SAVE-USER-ID.	553 M604 M608 755 1547 1581
414	WS-SCRATCHPAD-AREA	
424	WS-SELECT-SUB.	M711 M785 851
224	WS-SELECTION	724 731 774 1120
223	WS-SELECTION-FLAG.	M786
179	WS-SHOW-RESTART.	1053
182	WS-SHOW-RESTART-FINAL.	M1053 1054
180	WS-SHOW-RESTART-FIRST.	M1051
181	WS-SHOW-RESTART-LAST	M1052
209	WS-SRVC-ACCT-KEY	M1214
210	WS-SRVC-PDCT-KEY	M1215
151	WS-START	
192	WS-SUB	M613 614 635 636 637 640 641 M670 671 M676 677 M681 M684 684 685 M714 715 M721 722 761 762 763 764 765 768 774 775 778 784 785 787 788 791 799 800 801 804 824 825 826 827 828 829 830 831 832 833 M935 936 938 944 944 945 946 949 953 955 956 957 959 M983 984 M987 987 988 M993 994 M998 998 999 M1004 1005 1007 1020 1021 1022 1023 1024 1025 1026 1027 1028 1036 1037 1039 1040 1041 1042 1043 1044 1045 1046 1047 1049 1054 1055 1056 1058 1059 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 M1106 1107 M1117 1118 1133 1136 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1273 1274 1275 1276 1284
159	WS-TIME.	1408
183	WS-TO-PGM.	M505 M544 M855
160	WS-TRAN-ID	503 521 528
232	WS-TS-QUE-COMP	M1595 1629 M1679
231	WS-TS-QUE-MAP.	M1594 1628 M1678
230	WS-TS-QUE-WORK-AREA	
184	WS-UNDERScore	
394	WS-XYDCICNS	
413	WS-XYDCICOM	
400	WS-XYDCICPC	
240	WS-XYDCIIPS	
409	WS-XYDCIMES	
450	WS-XYDCIPND	
447	WS-XYDCISRV	
214	WS-XYZ-MSG	1258

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 8

DEFINED CROSS-REFERENCE OF DATA NAMES REFERENCES

145	WS-XY2KAREA
147	WS-XY2KCPY
238	XYS-IPS-COMMAREA

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 9

CONTEXT USAGE IS INDICATED BY THE LETTER PRECEDING A PROCEDURE-NAME REFERENCE.

THESE LETTERS AND THEIR MEANINGS ARE:

A = ALTER (PROCEDURE-NAME)
 D = GO TO (PROCEDURE-NAME) DEPENDING ON
 E = END OF RANGE OF (PERFORM) THROUGH (PROCEDURE-NAME)
 G = GO TO (PROCEDURE-NAME)
 P = PERFORM (PROCEDURE-NAME)
 T = (ALTER) TO PROCEED TO (PROCEDURE-NAME)
 U = USE FOR DEBUGGING (PROCEDURE-NAME)

DEFINED CROSS-REFERENCE OF PROCEDURES REFERENCES

1733	XY-XY2KCOVO-PARAGRAPH	
1698	X9800-ERROR.	P1163 P1237 P1318 P1356 P1514 P1544 P1578 P1606 P1626 P1646 P1666 P1690
1707	X9800-EXIT	E1163 E1237 E1318 E1356 E1514 E1544 E1578 E1606 E1626 E1646 E1666 E1690
496	0000-BEGIN-TRANSACTION	
581	0000-EXIT	
621	0100-EXIT.	E549
591	0100-RECEIVE-MAP	
643	0150-EXIT.	E612
632	0150-MOVE-FIELDS	P612
690	1000-EXIT.	E531 E535 E555
657	1000-INITIAL-SCRN.	P531 P535 P555
737	2000-EXIT.	E571
708	2000-PROCESS-ENTER	P571
753	2100-EDIT-MAP.	P713 P1105
812	2100-EXIT.	E713 G759 E1105
821	2150-CONFIRM-DELETE.	P720
835	2150-EXIT.	E720
876	2200-EXIT.	E725 E1121
846	2200-RESTART-PENDING	P725 P1121
903	2300-EXIT.	E867 E1141
884	2300-GET-NAD-KEY	P867 P1141
920	2400-EXIT.	E871 E1145
905	2400-GET-IPS-KEY	P871 P1145
940	3000-EXIT.	E559
927	3000-PROCESS-PF7	P559
961	3100-EXIT.	E934 E1003
942	3100-LOAD-SCRATCHPAD	P934 P1003
1009	4000-EXIT.	E563
969	4000-PROCESS-PF8	P563
1017	4100-BUILD-NEXT-PAGE	P669 P675 P982 P992
1067	4100-EXIT.	E669 E675 E982 E992
1094	4200-EXIT.	E683 E986 E997
1069	4200-PROTECT-MAP	P683 P986 P997
1123	5000-EXIT.	E567
1102	5000-PROCESS-PF1	P567
1131	5100-DELETE-PENDING.	P1116
1201	5100-EXIT.	E1116 G1134
1203	5105-EDIT-FOR-XYZ.	P1151
1287	5105-EXIT.	E1151 G1232
1289	5105A-EDIT-FOR-XYZ	P1227
1335	5105A-EXIT	E1227
1338	5110-EDIT-FOR-XYZ.	P1325 P1328 P1332
1359	5110-EXIT.	E1325 E1328 E1332
1383	8000-EXIT.	E532 E536
1367	8000-SEND-MAP.	P532 P536
1410	8010-EXIT.	E1371 E1441

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 10

DEFINED	CROSS-REFERENCE OF PROCEDURES	REFERENCES
1393	8010-SET-DATE-TIME	P1371 P1441
1429	8020-EXIT.	E1373 E1443
1419	8020-LINK-MSG-MOD.	P1373 P1443
1453	8100-EXIT.	E577 E1181 E1285
1437	8100-RESEND-MAP.	P577 P1181 P1285
1471	9000-EXIT.	E1381 E1451
1461	9000-RETURN.	P1381 P1451
1490	9100-EXIT.	E506 E546 E874
1479	9100-XCTL.	P506 P546 P874
1516	9200-EXIT.	E664 E978
1498	9200-START-PENDING	P664 P978
1550	9300-EXIT.	E674 E991 E1064 G1538 G1541
1524	9300-READ-NEXT-PENDING	P674 P991 P1064
1584	9350-EXIT.	E668 E981 E1062 G1572 G1575
1559	9350-READ-NEXT-PENDING-FOR-ALL	P668 P980 P1062
1609	9500-EXIT.	E687 E989 E1000
1592	9500-STORE-QUEUE	P687 P989 P1000
1631	9600-EXIT.	E933 E1002 E1115
1617	9600-GET-QUEUE	P933 P1002 P1115
1639	9700-DELETE-QUEUE.	P504 P660 P1184 P1481 P1705
1648	9700-EXIT.	E504 E660 E1184 E1481 E1705
1668	9800-EXIT.	E852 E1138
1656	9800-READ-PENDING.	P852 P1138
1712	9850-ERROR	P1185 P1706
1717	9850-EXIT.	E1185 E1706
1692	9900-EXIT.	E1119
1725	9900-RETURN	
1676	9900-REWRITE-QUEUE	P1119

9.3 NEWBIE (COBOL) Cross-Reference Listing

PP 5648-A25 IBM COBOL FOR OS/390 & VM 2.2.1

XYDCOC57 DATE 08/01/2003 TIME 09:13:54 PAGE 11

DEFINED CROSS-REFERENCE OF PROGRAMS REFERENCES

3 XYDCOC57

MESSAGES	TOTAL	INFORMATIONAL	WARNING	ERROR	SEVERE	TERMINATING
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PRINTED:	516	18	1	4	493	
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* STATISTICS FOR COBOL PROGRAM XYDCOC57:
* SOURCE RECORDS = 1734
* DATA DIVISION STATEMENTS = 211
* PROCEDURE DIVISION STATEMENTS = 489

END OF COMPILATION 1, PROGRAM XYDCOC57, HIGHEST SEVERITY 12.

RETURN CODE 12