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MVS/QuickRef - Tailoring QW

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Date of Presentation: February 5, 2013
Session Number: 12489

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Planned topics include - 1 of 2

- Database Context Processing
- QWIKREF1 Processing Overview
- Installation: QWLIBREX, QWIAD and CA MSM
- Virtual Excludes
- QINFO Subcommand
- QWIKOPTS Tailoring
- QWIKSLCJ – Cutting up the Database

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Planned topics include - 2 of 2

- QWIKMRGJ – Reassembling the Database
- QWIEXPYR – Checking the license key
- User Data Bases (UDB's) – using QWIKREF2
- OVERRIDE Facility - A Better User Data Base
- QWIKEXIT
- Batch Processing and Batch Commands

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Database Context Processing

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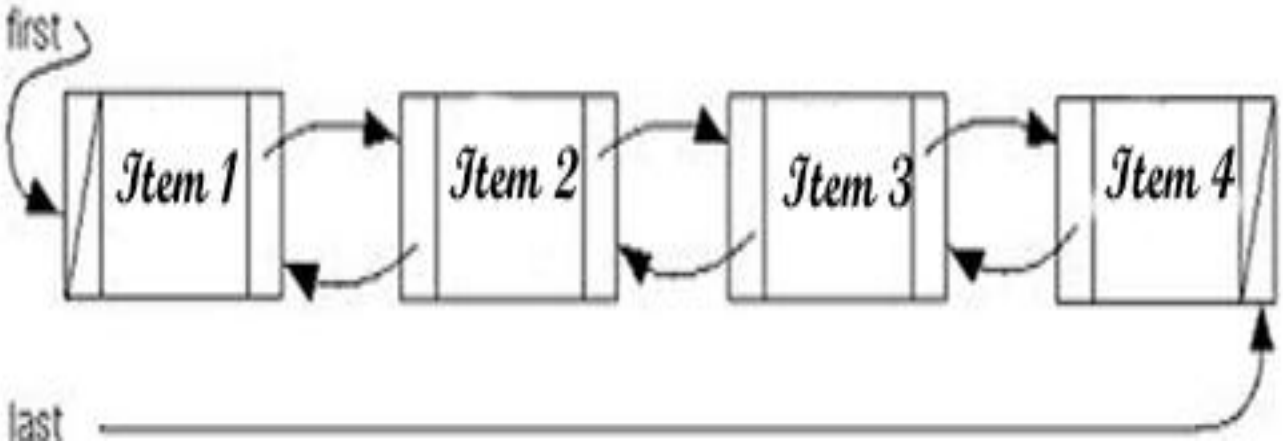
Database Context Processing

- View manuals such as Language manuals

GETNEXT



GETPREV

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Database Context Commands

- GETNEXT or GN – move forward
- GETPREV or GP – move backwards
- .TBL-OF-CONTENTS item is clue that GETNEXT and GETPREV are enabled in the product.
- V=’IBM’
  P=’C/C++ LANGUAGE SYNTX’
  R=’V3R2’
  I=’.INTRODUCTION’

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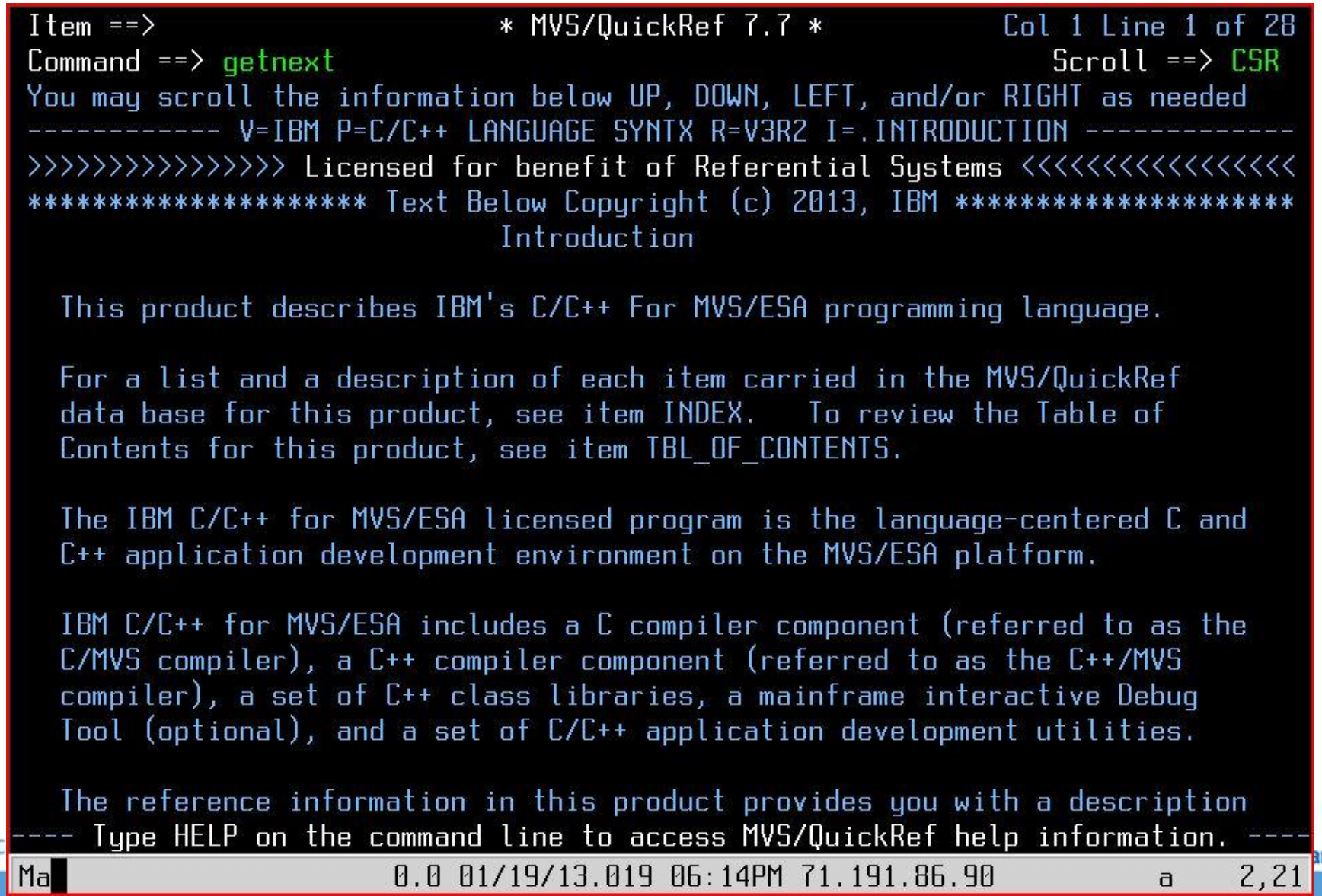
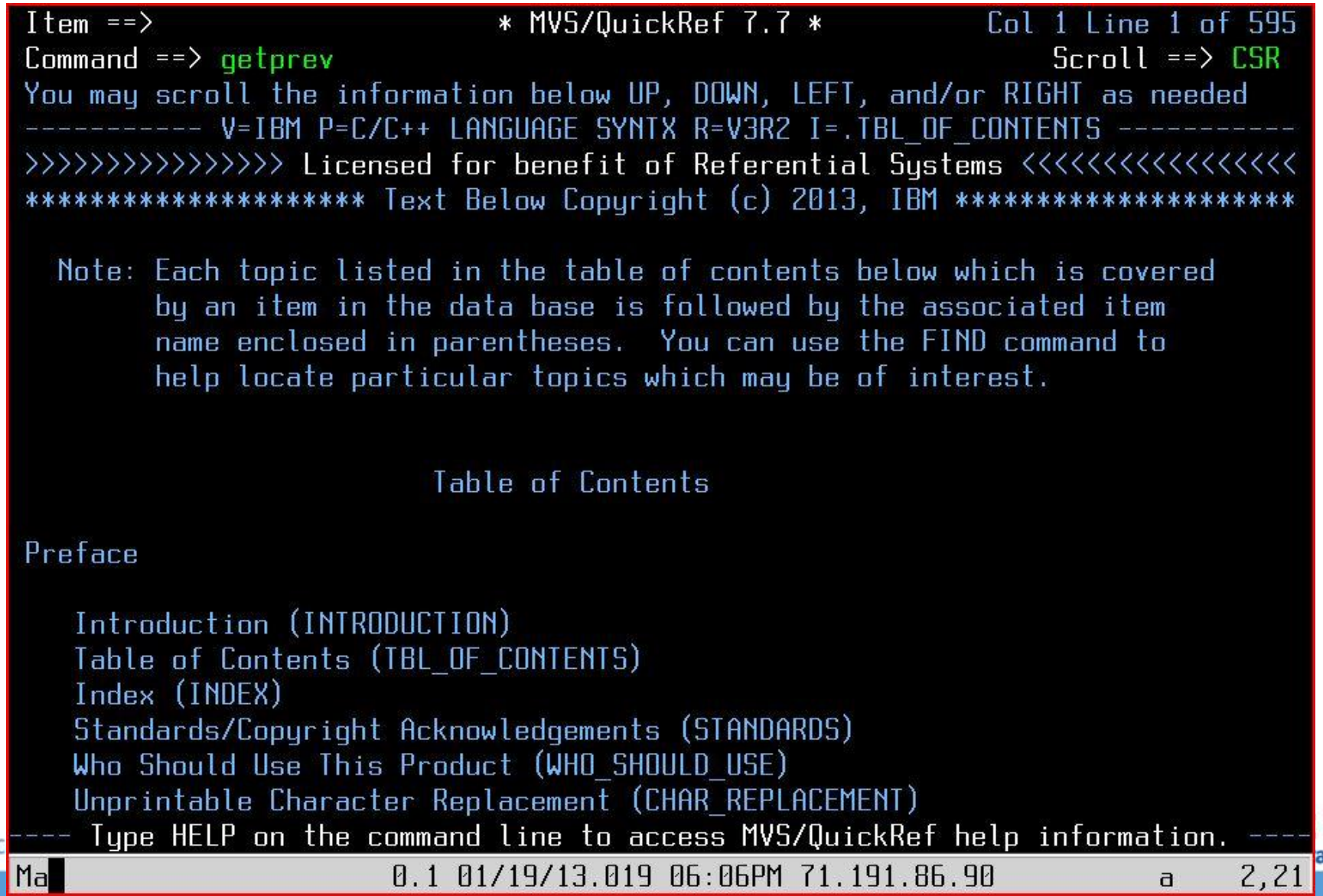
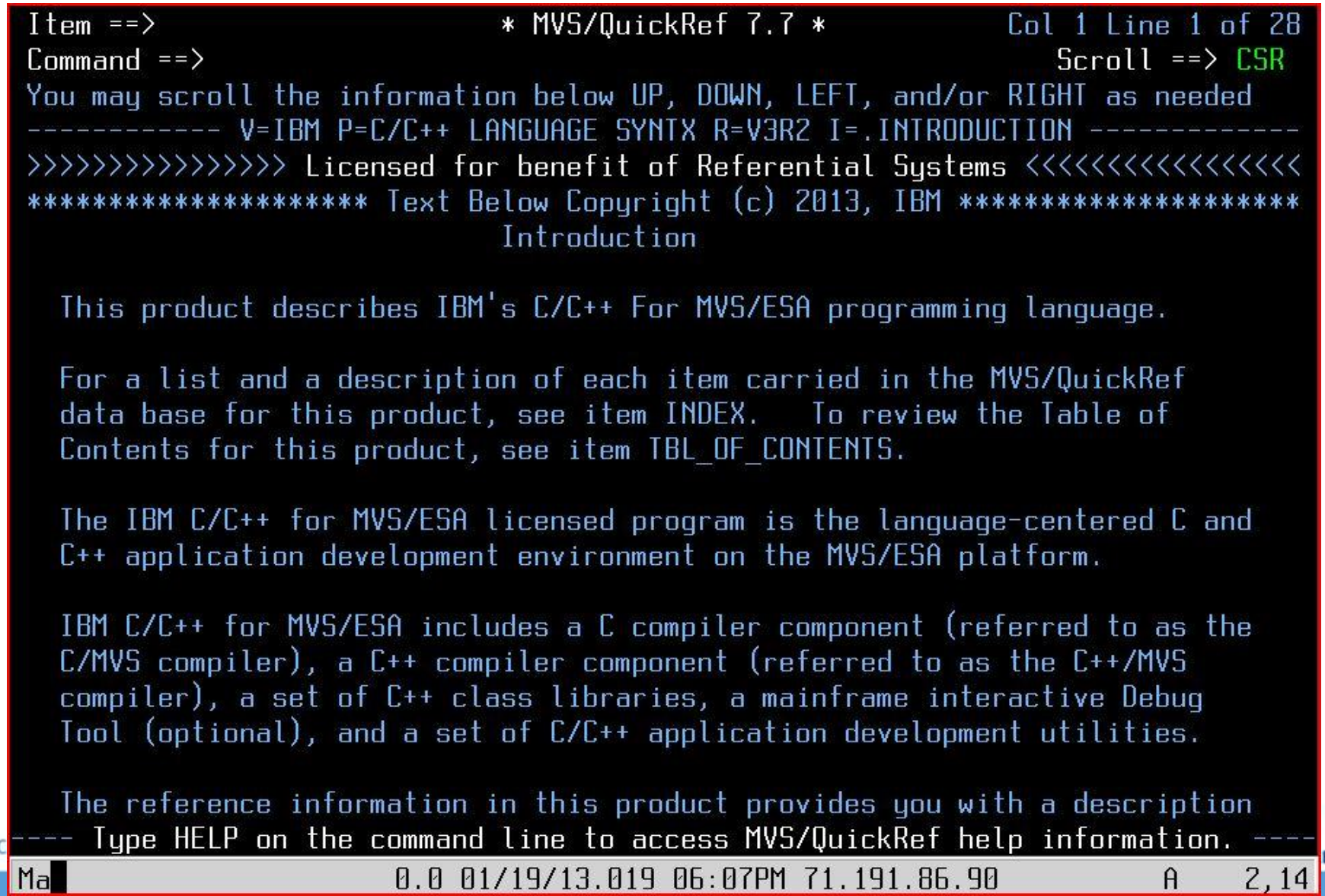
GETNEXT Example



GETPREV Example



Original Starting Point



QWIKREF1 Processing Overview

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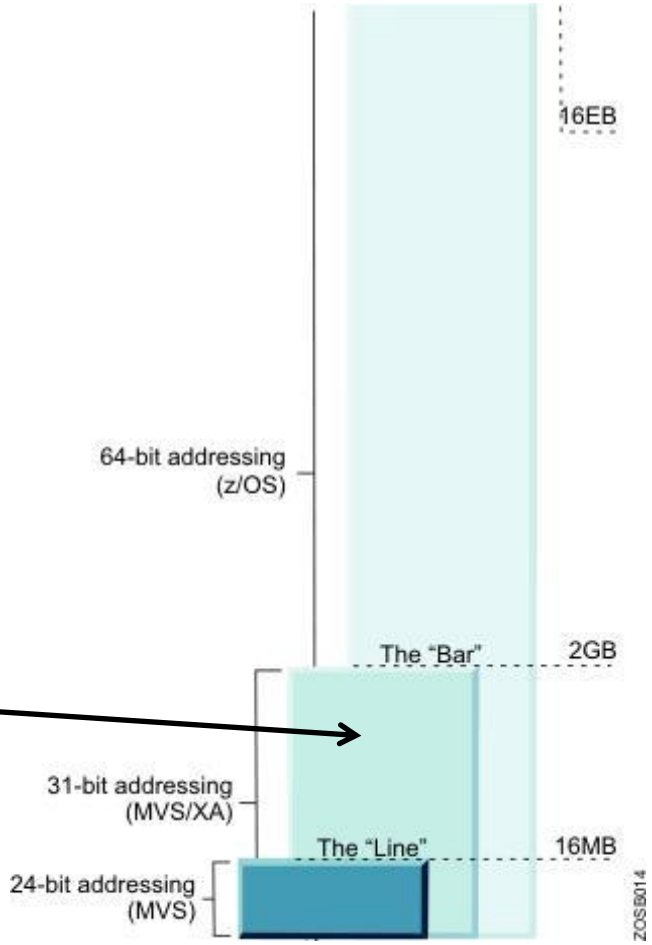
MVS Address Space / QWIKREF1

QWIKREF1 resides here



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QWIKREF1 Attributes

- **No** AC=01 - not APF-Authorized
- Does **not** use 64-bit addressing but does execute in 64-bit addressing systems
- AMODE 31
- RMODE ANY
- RENT, REUS
- LINKLIST is not recommended

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QW DD Names – 1 of 2

- QWREFDD – DD name used for the main database.
- QWLICKEY – DD name used for the license key file.
- QWVIRTEX – DD name used for the virtual excludes.
- QWPARMS –DD name used for the OVERRIDE facility.

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QW DD Names – 2 of 2

- SYSHELP –DD name used for TSO/E items found in SYS1.HELP.
- QWREFDDU – DD name used in batch for a single user database.
- QWPRINT – DD name used in batch for the output.

  DCB=(RECFM=VBA,LRECL=300,BLKSIZE=blk)
- QWCMDSDD –DD name used in batch for the batch commands.

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Where are QW DD Names Used?

Places you may see QW DD Names include

1. QW Clist
2. QWBATCH
3. Dynamic Allocation – Use ISRDDN to view

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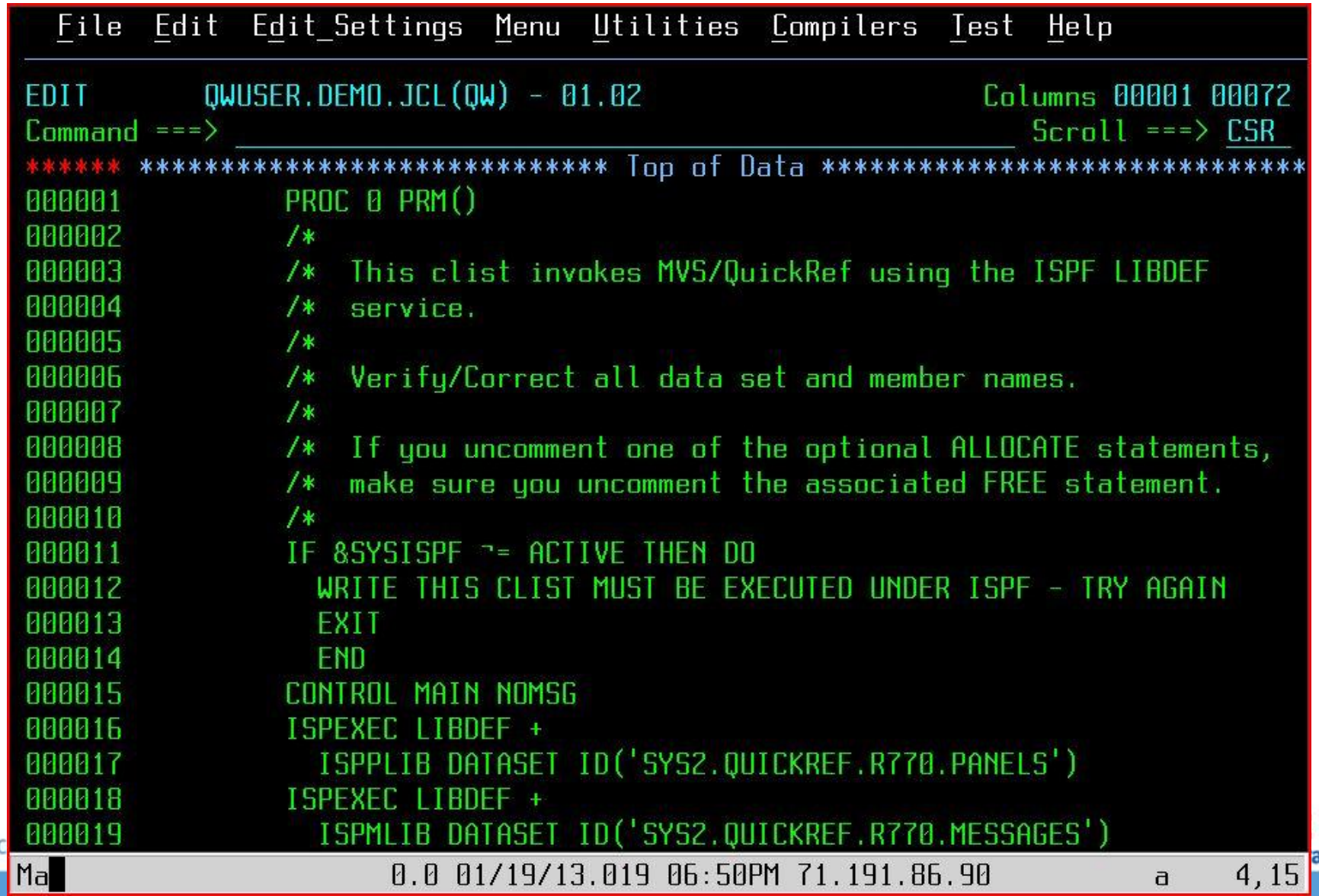
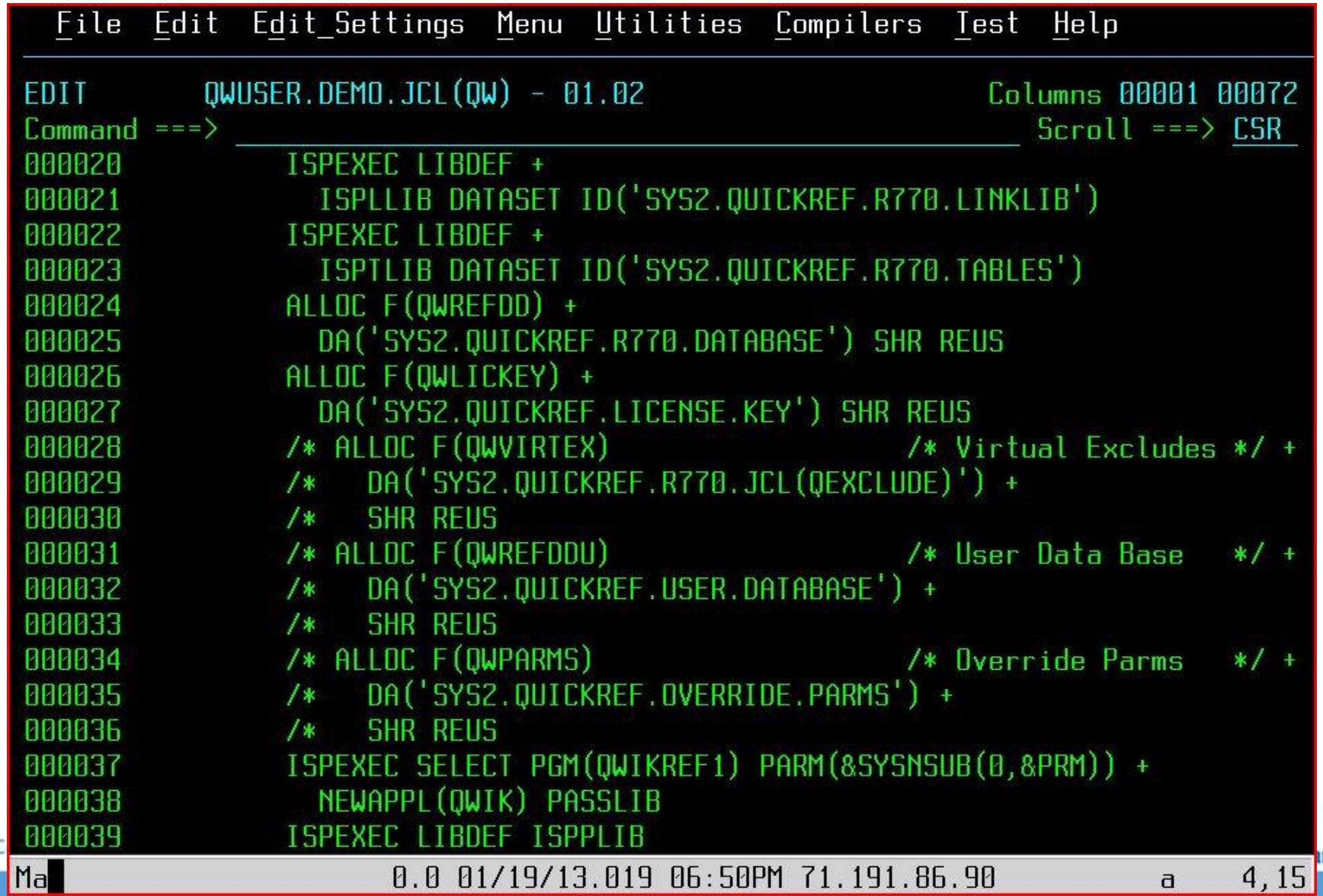
QW Clist – 1 of 3



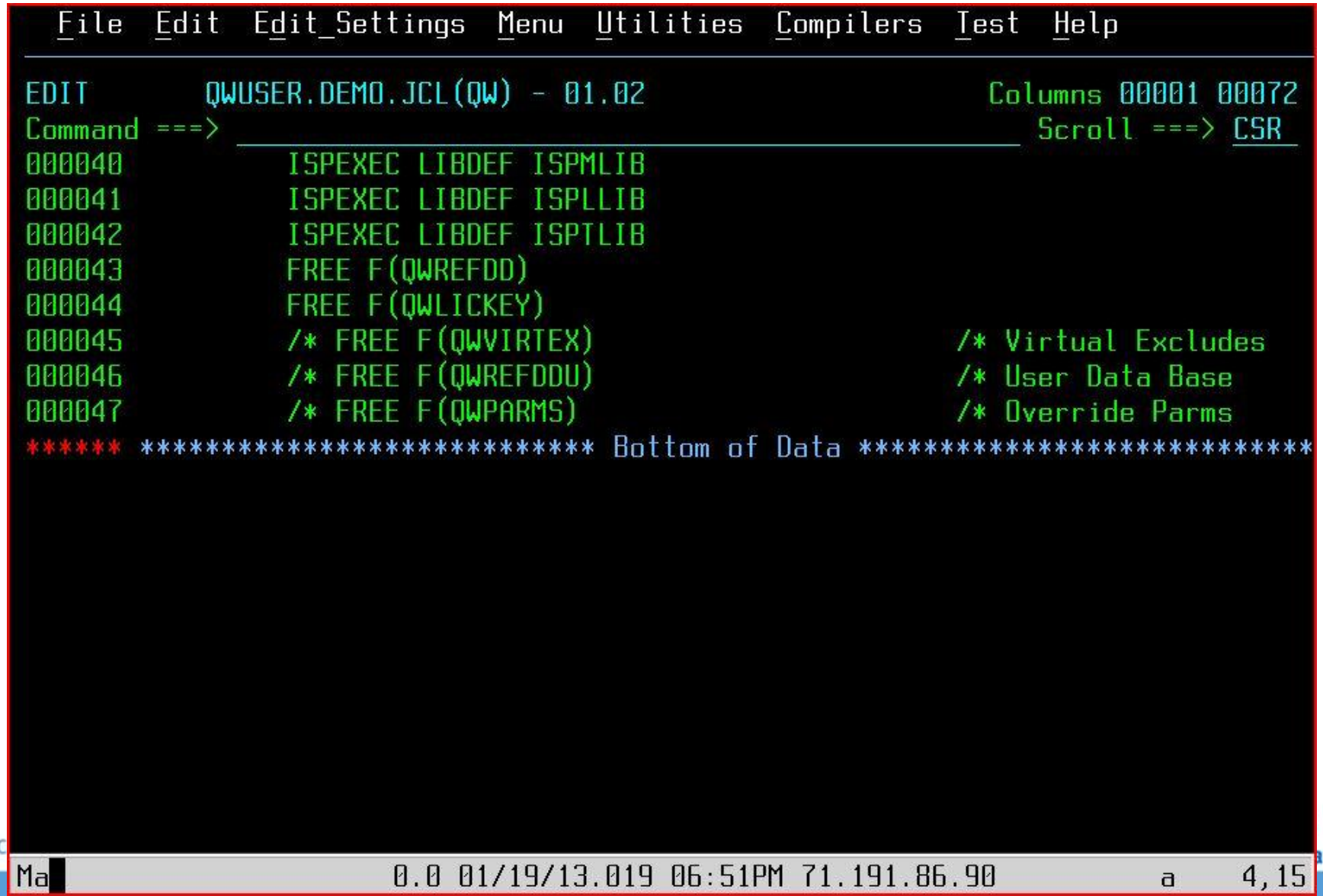
```
 File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       QWUSER.DEMO.JCL(QW) - 01.02                Columns 00001 00072
Command ===>                                            Scroll ===> CSR
****** ***************************** Top of Data ********************************
000001          PROC 0 PRM()
000002          /*
000003          /*  This clist invokes MVS/QuickRef using the ISPF LIBDEF
000004          /*  service.
000005          /*
000006          /*  Verify/Correct all data set and member names.
000007          /*
000008          /*  If you uncomment one of the optional ALLOCATE statements,
000009          /*  make sure you uncomment the associated FREE statement.
000010          /*
000011          IF &SYSISPF ¬= ACTIVE THEN DO
000012            WRITE THIS CLIST MUST BE EXECUTED UNDER ISPF - TRY AGAIN
000013            EXIT
000014            END
000015          CONTROL MAIN NOMSG
000016          ISPEXEC LIBDEF +
000017            ISPPLIB DATASET ID('SYS2.QUICKREF.R770.PANELS')
000018          ISPEXEC LIBDEF +
000019            ISPMLIB DATASET ID('SYS2.QUICKREF.R770.MESSAGES')
Ma                  0.0 01/19/13.019 06:50PM 71.191.86.90        a     4,15
```

QW Clist – 2 of 3



```
 File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       QWUSER.DEMO.JCL(QW) - 01.02                Columns 00001 00072
Command ===>                                            Scroll ===> CSR
000020           ISPEXEC LIBDEF +
000021             ISPLLIB DATASET ID('SYS2.QUICKREF.R770.LINKLIB')
000022           ISPEXEC LIBDEF +
000023             ISPTLIB DATASET ID('SYS2.QUICKREF.R770.TABLES')
000024           ALLOC F(QWREFDD) +
000025             DA('SYS2.QUICKREF.R770.DATABASE') SHR REUS
000026           ALLOC F(QWLICKEY) +
000027             DA('SYS2.QUICKREF.LICENSE.KEY') SHR REUS
000028           /* ALLOC F(QWVIRTEX)                    /* Virtual Excludes */ +
000029           /*   DA('SYS2.QUICKREF.R770.JCL(QEXCLUDE)') +
000030           /*   SHR REUS
000031           /* ALLOC F(QWREFDDU)                    /* User Data Base   */ +
000032           /*   DA('SYS2.QUICKREF.USER.DATABASE') +
000033           /*   SHR REUS
000034           /* ALLOC F(QWPARMS)                     /* Override Parms   */ +
000035           /*   DA('SYS2.QUICKREF.OVERRIDE.PARMS') +
000036           /*   SHR REUS
000037           ISPEXEC SELECT PGM(QWIKREF1) PARM(&SYSNSUB(0,&PRM)) +
000038             NEWAPPL(QWIK) PASSLIB
000039           ISPEXEC LIBDEF ISPPLIB
Ma                  0.0 01/19/13.019 06:50PM 71.191.86.90        a     4,15
```

QW Clist – 3 of 3



QWBATCH

```
  Menu  Utilities  Compilers  Help
 ____________________________________________________________________________
 BROWSE    QWUSER.DEMO.JCL(QWBATCH) - 01.07          Line 00000019 Col 001 080
 Command ===> ____________________________________________ Scroll ===> CSR
//JS10    EXEC PGM=QWIKREF1,
//             REGION=0K,
//             PARM='ITEMNAME'    > OR ANY "FAST PATH" INVOCATION STRING
//*            PARM='S=VOLSER'    > FOR DASD FREE SPACE INFO
//STEPLIB   DD DSN=QUICKREF.LINKLIB.DSN,DISP=SHR
//QWPRINT   DD SYSOUT=*,DCB=(RECFM=VBA,LRECL=300,BLKSIZE=6000)
//QWREFDD   DD DSN=QUICKREF.DATABASE.DSN,DISP=SHR
//QWLICKEY  DD DSN=LICENSE.KEY.DSN,DISP=SHR
//*QWVIRTEX DD DSN=QUICKREF.JCL(QEXCLUDE), > VIRTUAL EXCLUDES, OPTIONAL
//*            DISP=SHR
//*QWCMDSDD DD *       > BATCH Q/R COMMANDS, OPTIONAL
//*SORT 4 D
//*QWREFDDU  DD DSN=QUICKREF.USER.DATABASE.DSN, > USE IF USER DB IN USE
//*             DISP=SHR
//*QWPARMS   DD DSN=QUICKREF.OVERRIDE.PARMDSN, >USE IF OVERRIDES IN USE
//*             DISP=SHR
//SYSHELP    DD DSN=SYS1.HELP,DISP=SHR
******************************** Bottom of Data ********************************

Ma                 0.0 01/19/13.019 06:55PM 71.191.86.90          A    4,15
```

QWIKREF1 – logic flow – 1 of 3

- initializes and establishes ESTAE
- Parses parameters (including fast-path, batch, and direct-program call parameters)
- determine if cursor-driven invocation is required
- determines processing mode (ISPF, batch, direct program call) and handles setup for processing mode
- loads QWIKOPTS

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QWIKREF1 – logic flow – 2 of 3

- parse/setup OVERRIDE parameters
- determine if the MVS/QuickRef main and user data base(s) are pre-allocated
- loads QWIKEXIT (if available)
- displays and processes all MVS/QuickRef menus
- determine if DASD Free Space invocation is required

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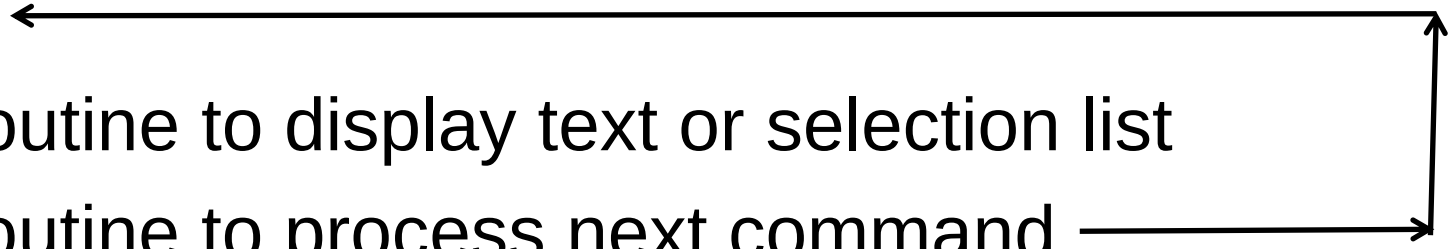
QWIKREF1 – logic flow – 3 of 3

- LOOP
- calls routine to display text or selection list
- calls routine to process next command
- handles termination processing
- sets the appropriate return code



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Installation: QWLIBREX, QWIAD and CA-MSM

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Installation Assistance

- **QWLIBREX** – contains compressed QW files and code to decompress them.
- **QWIAD** – QW Installation Assistance Dialog – Supports all possible QW installation paths (non-SMP/E, SMP/E, Full-DB, Partial-DB, DB-only)

  QWIAD is highly recommended
- **CA MSM** – CA Mainframe Software Manager - simplifies and unifies the installation of mainframe products on z/OS systems

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Virtual Excludes

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Database Size by Vendor

- For the 71 vendors in release 7.7, the database size by vendor:
  - Allen System Group 2%
  - IBM Tivoli 4.3%
  - CA Technologies 7%
  - BMC 16%
  - IBM 62%
  - **All Other Not Listed** 8%

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Why Removing Releases May Not Help

- Why doesn't eliminating releases of product always save space in database?
- Consider the following

  V=IBM

  P='Z/OS SYSTEM MSGS'

  R=V1R1 through V1R12

  I=IEC108I
- Logic says removing unneeded releases would save space
- Degassing says "maybe not"

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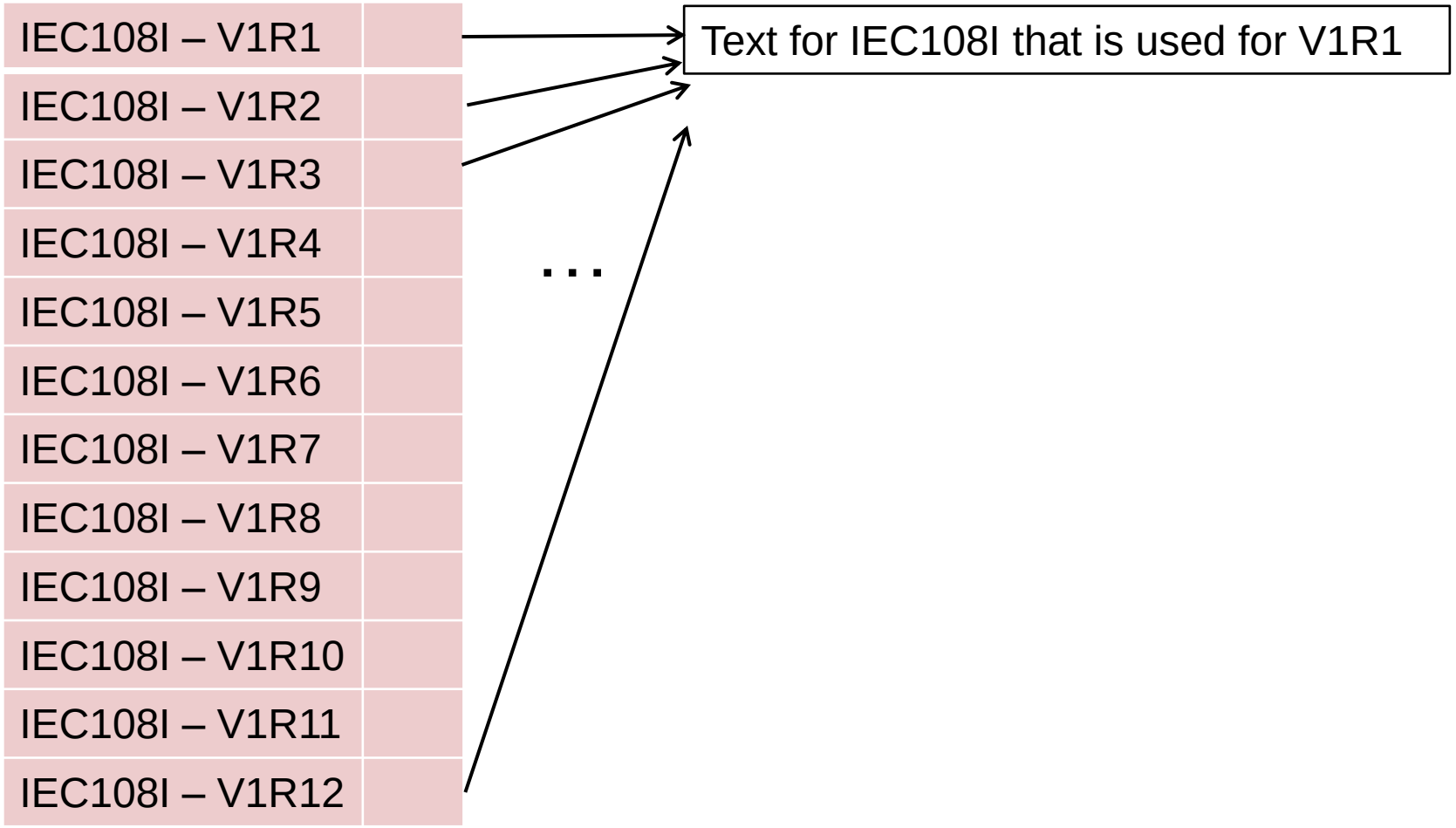
What Degassing Does



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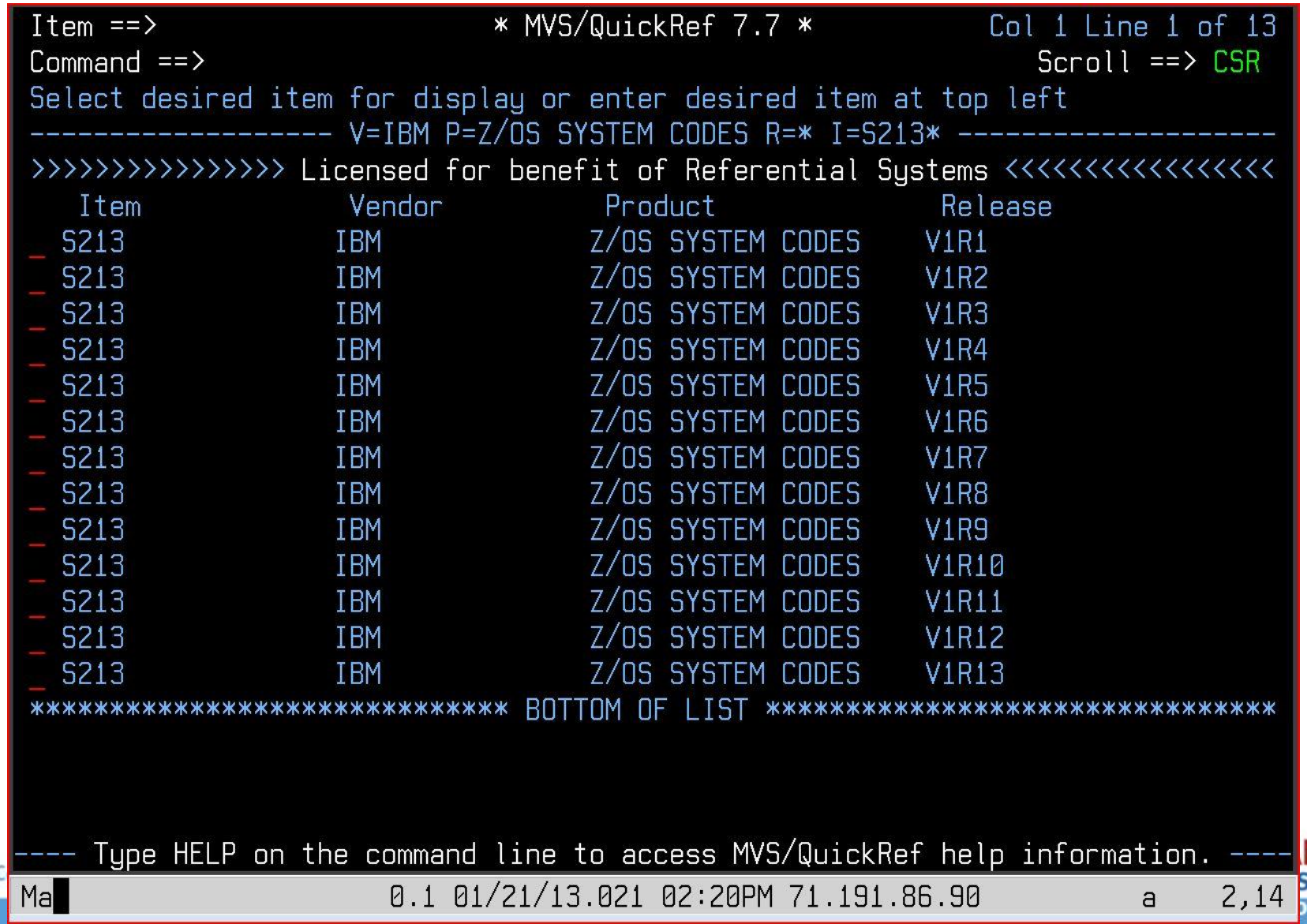
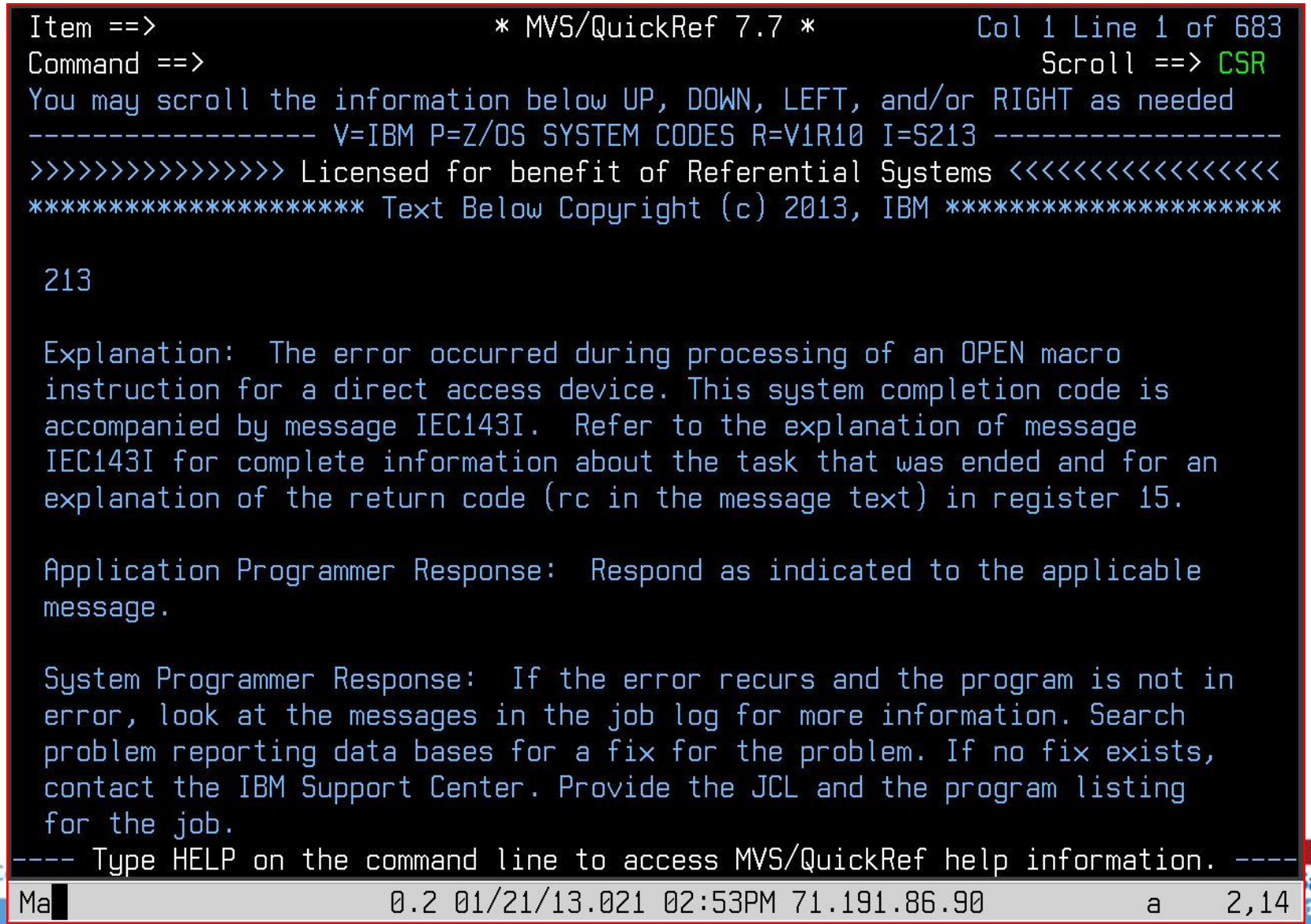
Too Many Items!



Virtual Excludes - Example

```
 Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------
 BROWSE    QWUSER.DEMO.JCL(VEXCLUDE) - 01.01          Line 00000000 Col 001 080
 Command ===> _____________________________________________ Scroll ===> CSR
****************************** Top of Data ********************************
*   Vendor          Product              Release         Item
E  IBM             Z/OS SYSTEM CODES    V1R1            *
E  IBM             Z/OS SYSTEM CODES    V1R2            *
E  IBM             Z/OS SYSTEM CODES    V1R3            *
E  IBM             Z/OS SYSTEM CODES    V1R4            *
E  IBM             Z/OS SYSTEM CODES    V1R5            *
E  IBM             Z/OS SYSTEM CODES    V1R6            *
E  IBM             Z/OS SYSTEM CODES    V1R7            *
E  IBM             Z/OS SYSTEM CODES    V1R8            *
E  IBM             Z/OS SYSTEM CODES    V1R9            *
   IBM             Z/OS SYSTEM CODES    V1R10           *
E  IBM             Z/OS SYSTEM CODES    V1R11           *
E  IBM             Z/OS SYSTEM CODES    V1R12           *
E  IBM             Z/OS SYSTEM CODES    V1R13           *
****************************** Bottom of Data *****************************
Ma                  0.1 01/21/13.021 02:50PM 71.191.86.90      a     4,15
```

Virtual Excludes - Results



QINFO Subcommand

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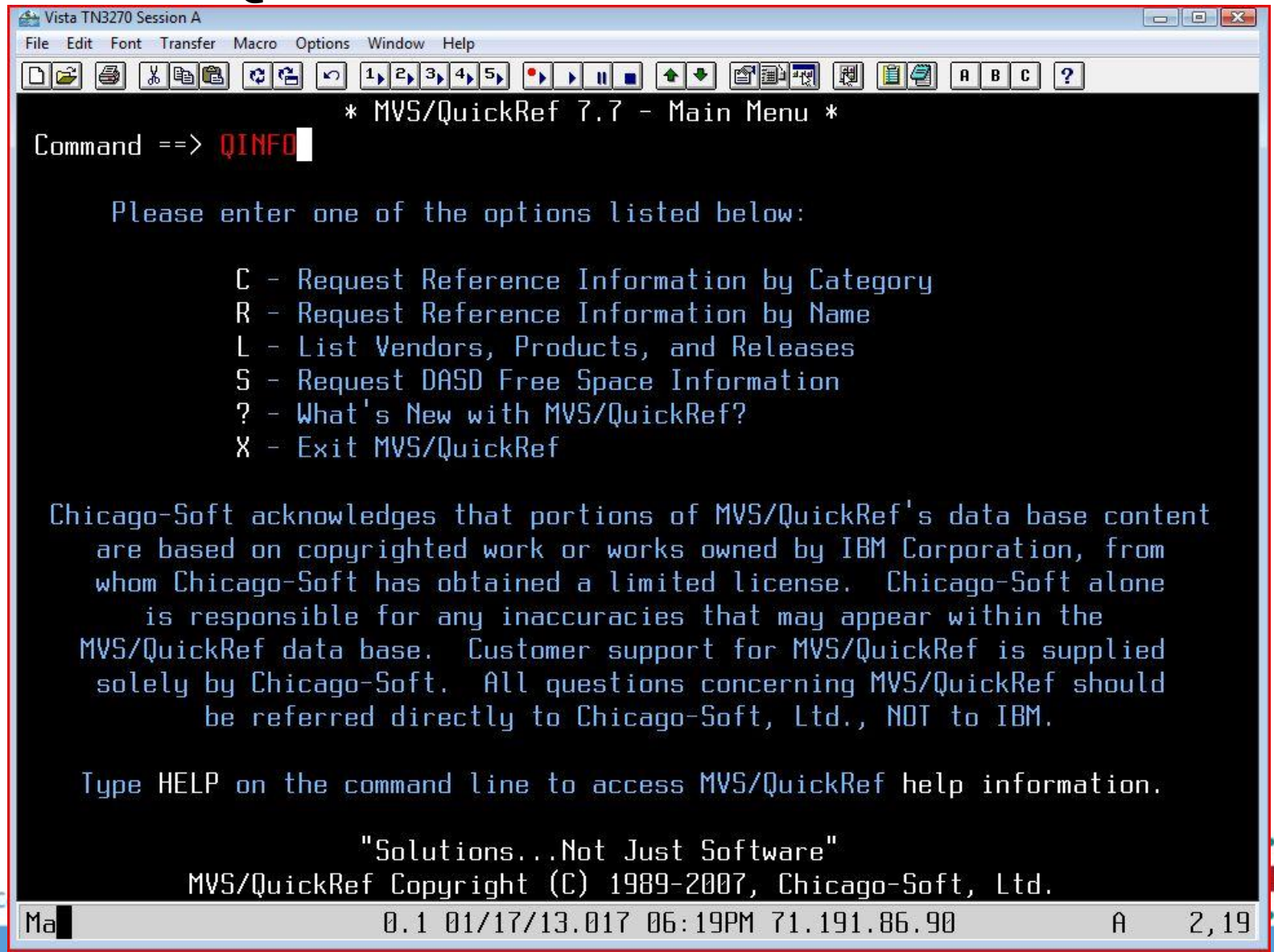
QINFO from Main Menu



QINFO – Site Information

```
---------------------------- Site Information -----------------------------
Site Id: 125100
```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QINFO – Release Information

```
--------------------------- Release Information ----------------------------
Product Release: 7.7
QWIKOPTS Release: 7.7
Main Data Base Release: 7.7
Program information: QWIKREF1 7.70 MVS/QUICKREF 10/31/12 22.24
```


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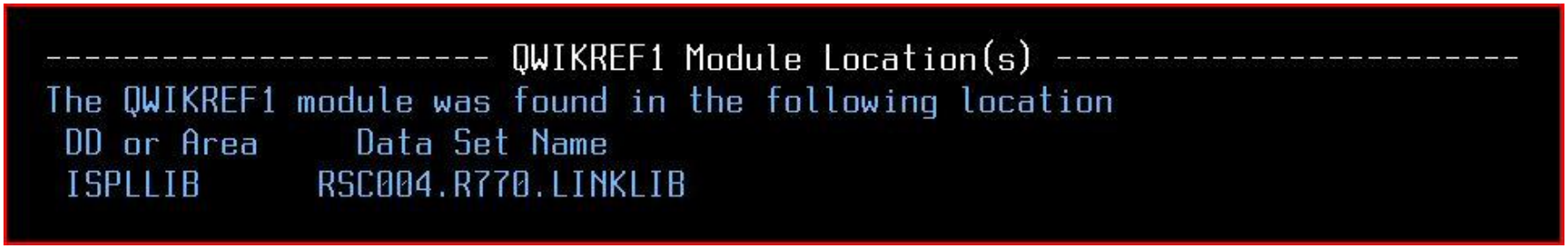
QINFO – QWIKREF1 Module Locations



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QINFO – QWIKOPTS Module Locations

```
---------------------- QWIKOPTS Module Location(s) -----------------------
The QWIKOPTS module was found in the following location
 DD or Area     Data Set Name
 ISPLLIB      RSC004.R770.LINKLIB
```


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QINFO – Expiration Date Info

```
---------------------- Expiration Date Information ------------------------
Current system date:2013.017   January 17, 2013
Product expires on: 2014.015   January 15, 2014
```


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QINFO – License Key Info

```
------------------------- License Key Information --------------------------
Type of License Key: 1
Licensed CPU(s): Serial  Machine
                 Number   Type
                 AD0E     2094
                 AC6B     1090
                 6B15     2817
                 78E0     2097
                 78E0     2097
```


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QINFO – License Key Profile

```
------------------------- License Key File Profile -------------------------
DSN of license key file: QWUSER.LICENSE.KEY.FILE
License key file was preallocated
```


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QINFO – CPU Specifics

```
-------------------- Central Processing Unit Specifics ---------------------
 CPU:00  Serial:01AC6B  Version:D3   Type:1090  SU/Sec: 1444.6  MIPS:  29.7
 CPU:01  Serial:01AC6B  Version:D3   Type:1090  SU/Sec: 1444.6  MIPS:  59.5
 CPU:02  Serial:01AC6B  Version:D3   Type:1090  SU/Sec: 1444.6  MIPS:  89.3
 Model Capacity Indicator: 306
 LPAR Name: IBMSYS1
```


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QINFO – Main Database Profile

```
--------------------------- Main Data Base Profile ---------------------------
DSN of main data base in use: SYS2.R770.DATABASE.NODUPS
Time Stamp of main data base: Year Day hhmmssth
                              2012 272 18060151
Main data base was preallocated
QWIKSLCT has not been run against main data base
QWIKMRGE has not been run against main data base
```


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QINFO – Virtual Exclude Profile

```
---------------------- Virtual Exclude File Profile ----------------------
DSN of virtual exclude file: QWUSER.DEMO.JCL
Member name for virtual excludes: VEXCLUDE
Virtual exclude file was preallocated
```


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QINFO – Z/OS & DFSMSdfp Specifics

```
------------------------ z/OS and DFSMSdfp Specifics ------------------------
DFAREL: 3321    CVTOSLVx: FFFF,FFFF,EF7F,0000,C000,0000
```


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QINFO – ISPF Configuration Table

```
-------------------- ISPF Configuration Table Specifics --------------------
The ISPCFIGU module was found in the following location
 DD or Area     Data Set Name
 LINKLIST     USER.LINKLIB
```


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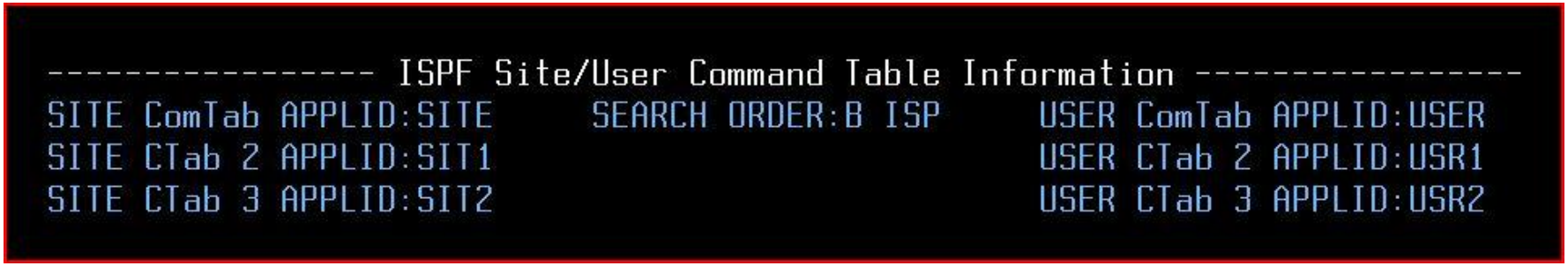
QINFO – Site/User Command Table



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QINFO – Site/User Profile

```
------------------------- QW & QWS Command Profile -------------------------
No site command table named SITECMDS was found in ISPTLIB.
No site command table named SIT1CMDS was found in ISPTLIB.
No site command table named SIT2CMDS was found in ISPTLIB.
No user command table named USERCMDS was found in ISPTLIB.
No user command table named USR1CMDS was found in ISPTLIB.
No user command table named USR2CMDS was found in ISPTLIB.
QW  in ISPF command table:ISPCMDS
  Trunc:  0
  Action: SELECT PGM(QWIKREF1) PARM(&ZPARM) NEWAPPL(QWIK)
  Desc:   INVOKE QUICKREF AS POPUP APPLICATION
QWS in ISPF command table:ISPCMDS
  Trunc:  0
  Action: SELECT PGM(ISPSTRT) PARM(PGM(QWIKREF1) PARM(&ZPARM) NEWAPPL(QWIK) SC
  Desc:   INVOKE QUICKREF AS NEW SCREEN SPLIT
```


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QINFO - QW Parms 1 of 3

```
---------------------- MVS/QuickRef Options in Effect ----------------------
QDB= (Not set in QWIKOPTS)
LICDSN= (Not set in QWIKOPTS)
VEXDSN= (Not set in QWIKOPTS)
VEXMBR=QEXCLUDE
PARMDSN= (Not set in QWIKOPTS)
OUTCLAS=A
OUTDEST=LOCAL
OUTDISP=HOLD
ROUTCDE=002
MAINMNU=QWIKREFA
USERMNU=QWIKREFU
TEXTSTR=940000
USERSTR=640000
DASDFRE=(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
BATPDSRD=N
ONLPDSRD=N
SMSVSTAT=YXXXX
```


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QINFO - QW Parms 2 of 3

```
JES2CHR=$
HELPDD=SYSHELP
PF3=END
CHRXLAT=N
UISLOPT=N
CHRXTAB=C0->4C,D0->6E,E0->5F,5A->4F,6A->4F,00->00,00->00,00->00,00->00
        00->00,00->00,00->00,00->00,00->00,00->00,00->00,00->00
CDIXLAT=',=*/()?;{}!'
OSLSLO=Y
VPSSLO=N
FOLD=N
AUTOLUP=Y
AUTOFC=Y
PNLREL=S
USECSID=N
LOCLDB1= (Not set in QWIKOPTS)
LOCLDB2= (Not set in QWIKOPTS)
LOCLDB3= (Not set in QWIKOPTS)
LOCLDB4= (Not set in QWIKOPTS)
```


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QINFO - QW Parms 3 of 3

```
LOCLDB5= (Not set in QWIKOPTS)
LOCLDB6= (Not set in QWIKOPTS)
LOCLDB7= (Not set in QWIKOPTS)
LOCLDB8= (Not set in QWIKOPTS)
LOCLDB9= (Not set in QWIKOPTS)
```


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QINFO – Character Set Usage

```
------------------ Character Set Usage Information Section -----------------
USECSID=N is in effect
ZTERMCID VARIABLE IS '00037'
```


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QWIKOPTS Tailoring

QWIKOPTS List – 1 of 3

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    QWUSER.DEMO.JCL(QWIKOPTS) - 01.01          Line 00000010 Col 001 080
 Command ===> ____________________________________________ Scroll ===> CSR
QWIKOPTS QWIKOPT TYPE=CSECT,                                          X00100000
               QDB=QWUSER.QW.DATABASE,                                X00110000
               LICDSN=QWUSER.QW.LICENSE.KEY.FILE,                     X00110100
               VEXDSN=QWUSER.DEMO.JCL,                  QE0905B 7.2X00110200
               VEXMBR=VEXCLUDE,                         QE0905B 7.2X00110300
               PARMDSN=,          OVERRIDE PARAMETER DSN, NO QUOTES   X00120000
               OUTCLAS=A,         QPRINT OUTPUT SYSOUT CLASS          X00130000
               OUTDEST=LOCAL,     QPRINT OUTPUT DESTINATION           X00140000
               OUTDISP=HOLD,      QPRINT OUTPUT HOLD/NOHOLD SETTING   X00150000
               ROUTCDE=2,         WTO ROUTE CODE                      X00160000
               JES2CHR=$,         JES2 COMMAND CHARACTER              X00170000
               HELPDD=SYSHELP,      DDNAME FOR HELP                   QE9802E 5.2X00170100
               PF3=END,           TREAT END AS END                    QE9802F 5.2X00170200
               CDIXLAT=',=*/()?;{}!', CURSOR DRIVEN XLATE             QE9801O 5.2X00176000
               MAINMNU=QWIKREFA, NAME OF Q/R MAIN MENU                X00180000
               USERMNU=QWIKREFU, NAME OF Q/R USER MAIN MENU           X00190000
               DASDFRE=(1,2,3,4,5,6,7,8,9,10,11,12,13,14,             X00190300
               15,16,17,18),                            QE0710C 6.9X00190310
               BATPDSRD=N,         BATPDSRD VALUE       QE0001D 5.7X00190400
               ONLPDSRD=N,         BATPDSRD VALUE       QE0001D 5.7X00190500
 Ma                  0.0 01/21/13.021 03:52PM 71.191.86.90      a     5/15
```

QWIKOPTS List – 2 of 3

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
BROWSE    QWUSER.DEMO.JCL(QWIKOPTS) - 01.01          Line 00000030 Col 001 080
Command ===> ____________________________________________ Scroll ===> CSR
             SMSVSTAT=YXXXX,   DISPLAY SMS VSTAT  QP0906B QE0810B 7.1X00190600
             TEXTSTR=940000,   MAIN DB STORAGE AREA SIZE  QE0001E 5.7X00200000
             USERSTR=640000,   USER DATA BASE STORAGE AREA SIZE      X00210000
             CHRXLAT=N,        SPECIAL CHARACTER XLATION             X00220000
             CHRXTAB=((C0,4C),(D0,6E),(E0,5F),(5A,4F),    QP9906A 5.5X00220100
             (6A,4F),(00,00),(00,00),(00,00),             QP9906A 5.5X00220200
             (00,00),(00,00),(00,00),(00,00),             QP9906A 5.5X00220300
             (00,00),(00,00),(00,00),(00,00)),            QP9906A 5.5X00220400
             UISLOPT=N,        USER ITEM SLCTN LIST OPT   QE9712C 5.2X00220500
             OSLSLO=Y,         OS LEVEL SLCTN LIST OPTION QE9807B 5.3X00220600
             VPSSLO=N,         VDR/PRD SPCFC SLCT LST OPT QE9807B 5.3X00220700
             FOLD=N,           FOLD DATA TO UPPER CASE    QP9810A 5.3X00220800
             AUTOLUP=Y,        AUTOMATIC LOOKUP OPTION    QE0001E 5.7X00220900
             AUTOFC=Y,         AUTOMATIC FINDCODE OPTION  QE0001E 5.7X00221000
             PNLREL=S,         PANEL DISPLAY RELEASE #    QP0901F 7.0X00221100
             USECSID=N,        CCSID VARIANTS XLATE OPT.  QP1011B 7.4X00221200
             LOCLDB1=,         1ST USER DATA BASE DSN, NO QUOTES      X00230000
             LOCLDB2=,         2ND USER DATA BASE DATA SET NAME       X00240000
             LOCLDB3=,         3RD USER DATA BASE DATA SET NAME       X00250000
             LOCLDB4=,         4TH USER DATA BASE DATA SET NAME       X00260000
Ma                  0.0 01/21/13.021 03:52PM 71.191.86.90          A    4,15
```

QWIKOPTS List – 3 of 3

```
  Menu  Utilities  Compilers  Help
 ____________________________________________________________________________
 BROWSE    QWUSER.DEMO.JCL(QWIKOPTS) - 01.01          Line 00000050 Col 001 080
 Command ===> ____________________________________________ Scroll ===> CSR
              LOCLDB5=,         5TH USER DATA BASE DATA SET NAME      X00270000
              LOCLDB6=,         6TH USER DATA BASE DATA SET NAME      X00280000
              LOCLDB7=,         7TH USER DATA BASE DATA SET NAME      X00290000
              LOCLDB8=,         8TH USER DATA BASE DATA SET NAME      X00300000
              LOCLDB9=          9TH USER DATA BASE DATA SET NAME       00310000
         END                                                         00320000
******************************** Bottom of Data ********************************

 Ma                 0.0 01/21/13.021 03:53PM 71.191.86.90          A    4,15
```

QINFO – QWOPTASM to Reassemble

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    QWUSER.DEMO.JCL(QWOPTASM) - 01.02          Line 00000000 Col 001 080
 Command ===> _____________________________________________ Scroll ===> CSR
****************************** Top of Data ********************************
//QWUSERQA JOB (A01),'CHUCK DAVIS',MSGCLASS=H,CLASS=A,NOTIFY=&SYSUID
/*JOBPARM L=2
//JS10    EXEC HLASMCL,
//             PARM.C='NODECK,OBJECT,XREF(SHORT)',
//             PARM.L='LIST,MAP,XREF,RENT,REUS'
//C.SYSLIB  DD DSN=QWUSER.R770.MACLIB,DISP=SHR          <-- Macro lib
//           DD DSN=SYS1.MACLIB,DISP=SHR
//           DD DSN=SYS1.MODGEN,DISP=SHR
//C.SYSPRINT DD SYSOUT=*
//C.SYSIN   DD DSN=QWUSER.DEMO.JCL(QWIKOPTS),           <-- Source lib
//             DISP=SHR
//L.SYSLMOD DD DSN=QWUSER.DEMO.LINKLIB,                 <-- Link lib
//             DISP=SHR
//L.SYSPRINT DD SYSOUT=*
//L.SYSIN    DD *
 NAME QWIKOPTS(R)
****************************** Bottom of Data *****************************
Ma                  0.1 01/21/13.021 04:05PM 71.191.86.90        a    4,15
```

QWIKOPTS – QWINUOPT

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    QWUSER.DEMO.JCL(QWINUOPT) - 01.00         Line 00000001 Col 001 080
 Command ===> ____________________________________________ Scroll ===> CSR
++USERMOD(QWI0002)                  /* QWIKOPTS Source Update */.
++VER(Z038)                         /* MVS SREL

                                          >>> Note <<<
                                       Place changes to source
                                       library member QWIKOPTS
                                       in IEBUPDTE format after
                                       ./ CHANGE NAME=QWIKOPTS
                                       statement below.  Make
                                       sure sequence numbers
                                       are correct.
                                                              */
            FMID(QWI0770)           /* MVS/QuickRef SYSMOD    */.
++SRCUPD(QWIKOPTS)                  /* Module Name            */
            DISTLIB(AQWISRC)        /* DLIB                   */.
./ CHANGE NAME=QWIKOPTS
              QDB=QWUSER.R770.DATABASE,                              X00110000
              LICDSN=QWUSER.LICENSE.KEY.FILE,                        X00110100
              VEXDSN=QWUSER.DEMO.JCL,                                X00110200
              VEXMBR=VEXCLUDE,                                       X00110300
 Ma                  0.0 01/21/13.021 04:20PM 71.191.86.90      A    4,15
```

MVS/QuickRef Utilities

- QWIKSLCT
- QWIKMRGE
- QWIEXPYR / QWIEXPY2

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QWIKSLCT / QWIKSLCJ

- Usage:
  - To copy the entire database to new database
  - To selectively copy items from the database to new database
- Action driven by control statements
- Not supported for User Databases (UDB's)
- For JCL, see member QWIKSLCJ in JCL library

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QWIKMRGE / QWIKMRGJ

- Usage:
  - To combine (or merge) 1 to 5 update databases into a single database
- Action driven by control statements
- Not supported for User Databases (UDB's)
- For JCL, see member QWIKMRGJ in JCL library

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QWIEXPYR

- Usage:
  - To analyze an MVS/QuickRef license key file to return the number of remaining days
- REXX driven
- Checks the currently allocated license key file
- For JCL, see member QWIEXPYR in JCL library

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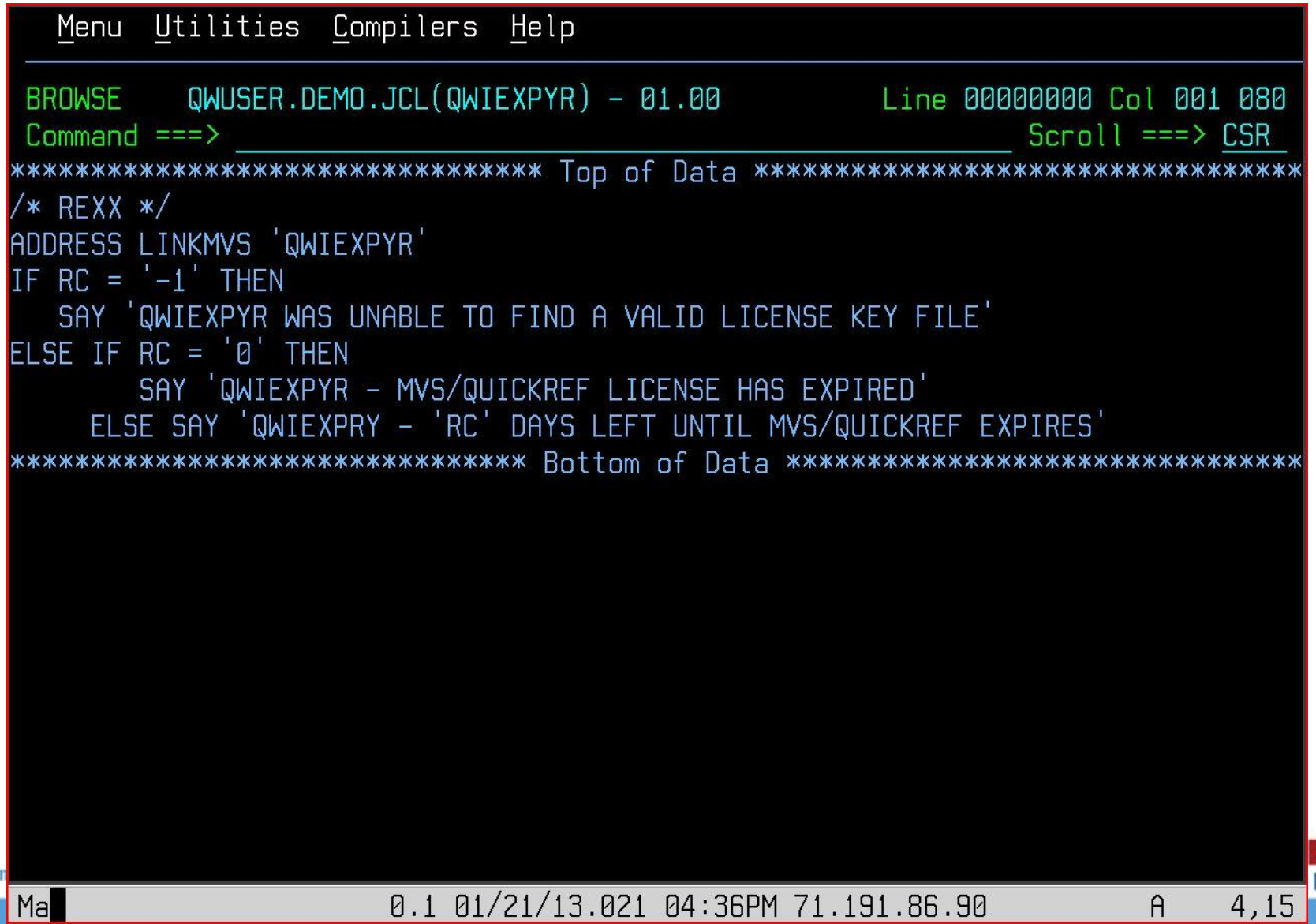
QWIEXPYR REXX Exec



QWIEXPYR/QWIEXPY2 Return Codes

- 0 : license key expired
- -1 : license key file invalid
- 'nnnn' : positive integer is the number of days until the MVS/QuickRef license key expires.

Note: 3653 is reported even when the number of days until expiration may be more than 3653 days.

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QWIEXPY2

- Updated version of QWIEXPYR
- Usage:
  - To analyze an MVS/QuickRef license key file to return the number of remaining days
- REXX driven
- Allows you to allocate the license key file
- Useful for dealing with lots of license keys
- For JCL, see member QWIEXPY2 in JCL library

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QWIEXPY2 REXX Exec

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    QWUSER.DEMO.JCL(QWIEXPY2) - 01.00         Line 00000000 Col 001 080
 Command ===> _____________________________________________ Scroll ===> CSR
********************************* Top of Data ********************************
 /* REXX  */
 /*****************************************************************/
 /* THIS REXX CAN BE INVOKED TO SHOW HOW MANY DAYS ARE LEFT   */
 /*   UNTIL THE LICENSE IN THE FILE ALLOCATED TO QWLICKEY     */
 /*   EXPIRES.                                                */
 /*****************************************************************/

 KEYS = 'RSC001.R720.LICENSE.KEY.FILE'     /* LICENSE KEY FILE */

 ADDRESS ISPEXEC
 "CONTROL ERRORS RETURN"    /* RETURN CONTROL TO THIS DIALOGUE */

 ADDRESS TSO     "ALLOC DD(QWLICKEY) DS('"KEYS"') SH REU "

 ADDRESS LINKMVS 'QWIEXPYR'
    IF RC = '-1' THEN
    SAY 'QWIEXPYR WAS UNABLE TO FIND A VALID LICENSE KEY FILE'
    ELSE IF RC = '0' THEN
    SAY 'QWIEXPYR - MVS/QUICKREF LICENSE HAS EXPIRED'
 Ma                    0.1 01/21/13.021 04:37PM 71.191.86.90        A    4,15
```

User Data Bases (UDB's)

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User Data Bases (UDB's)

Examples:

- Local job class or SYSOUT class standards
- Local JCL standards
- Tape handling procedures and instructions
- Employee phone number list
- "Hot" news items, such as down time schedules
- Hardware/software configuration information
- User ABEND code descriptions for local applications

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MVS/QuickRef Database Layout

Indices in QW have the following layout:

- Vendor – 15 characters
- Product – 20 characters
- Release – 15 characters
- Item – 16 characters

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Your UDB Database Layout

Manipulate the indices in the database to fit your needs:

- Vendor – “My Company Name”
- Product – “Local ABEND codes”
- Release – “*”, ANY, “My Release” or “ ”
- Item – U0999

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Steps to Building User Data Base

Steps for Building UDB:

1. Allocate and load the user data base(s)
2. Define the user data base(s) to MVS/QuickRef
3. If needed, create auser menu panel.
4. If you created a user menu panel, then add user menu option to the MVS/QuickRef main menu
5. Backup your source files because you probably **will** need to rebuild.

See MVS/QuickRef User Guide for details.

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The Override Facility

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The OVERRIDE Facility

- You cannot directly modify the Q/R database.
- Sometimes, you need to.
- Override facility allows you to add, append, or replace item with member of PDS.
- Commands are
  - **REPLACE** – add or replace item
  - **AUGMENT** – supply supplemental text
  - **PREVENT** – deny access to item or volser
  - **ALLOW** – allow access to item or volser

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The OVERRIDE Facility

- **Useful**:

  Suppose the text of an item in the database is missing, incorrect or misleading. You can use the override facility to correct the item.

- **Necessary**:

  Suppose you need to prevent the DASD Free Space facility from accessing a specific VOLSER.

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The OVERRIDE Facility

Override Facility can provide functionality of a User Database. Although User Database allows you to pack more data into a smaller footprint, it is **static** – you can't change a UDB without rebuilding it.

The override facility is a hot facility – when you edit and save text using ISPF EDIT, the change takes place instantly. For items such as work schedules or things that can change frequently, the override facility is much more flexible.

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QWIKEXIT

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QWIKEXIT

- QWIKEXIT is an optional, user security exit.
- Not linked into the QWIKREF1 load module.
- It can be used instead of Override Facility PREVENT and ALLOW statements.
- QWIKEXIT is invoked each time an item is selected to be included in the on-screen item selection list or selected to be displayed.

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QWIKEXIT

- For each invocation of QWIKEXIT, the item in question may be accepted for display or rejected by this exit.
- How you determine whether it should be accepted or rejected is completely up to you. You can use a SAF call or other means.
- At anytime, MVS/QUICKREF may be terminated via a RC=08 from this exit.

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QWIKEXIT Return Codes

MVS/QUICKREF expects one of the following return codes from QWIKEXIT:

0 - allow the user to view the item

4 - deny the user access to the item and, issue message QWIKM036 (You can change the text of this message using PDF EDIT if desired)

8 - deny the user access to the item and, terminate MVS/QUICKREF immediately.

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Batch Processing and Batch Commands

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QWBATCH JCL

```
  File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
--------------------------------------------------------------------------------
EDIT       QWUSER.DEMO.JCL(QWBATCH) - 01.08               Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
****** ******************************** Top of Data ********************************
000001 //RSC004B7 JOB (A01),'CHUCK DAVIS',MSGCLASS=H,CLASS=A,NOTIFY=&SYSUID
000002 /*JOBPARM L=2
000003 //JS10    EXEC PGM=QWIKREF1,REGION=0K,PARM='S=*'
000004 //STEPLIB   DD DSN=QWUSER.DEMO.LINKLIB,DISP=SHR
000005 //QWPRINT   DD SYSOUT=*,DCB=(RECFM=VB,LRECL=300,BLKSIZE=6000)
000006 //QWREFDD   DD DSN=QWUSER.R770.DATABASE,DISP=SHR
000007 //QWLICKEY  DD DSN=QWUSER.LICENSE.KEY.FILE,DISP=SHR
000008 //SYSHELP   DD DSN=SYS1.HELP,DISP=SHR
000009 //*QWCMDSDD  DD *
000010 //*   SORT 9 A
000011 //
****** ***************************** Bottom of Data ******************************
Ma                    0.1 01/21/13.021 06:35PM 71.191.86.90          A^    4,15
```

Batch Commands

The following commands are valid in batch

Command	Abbreviation
QINFO	QINFO
SORT	SO
GETNEXT	GN
GETPREV	GP
SEARCH	SE
QPRINT	QP

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Batch Commands File

The batch commands file:

- may be specified as a physical sequential data set or a specific member of a PDS
- may be fixed or variable length
- must have an LRECL no greater than 80 bytes (84 if the file is variable length)
- must not contain any blank records

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That's All Folks

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QWACADEMY.COM

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MVS/QuickRef - Tailoring QW

Speaker Name: **Chuck Davis**
Speaker Company: **Chicago-Soft, Ltd.**

Date of Presentation: February 5, 2013
Session Number: 12489

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SHARE in San Francisco 2013