

## XRTVSYSTS CMD

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0001.00          CMD          PROMPT('Check Disk Use')
0002.00
0003.00          PARM          KWD(INTER) TYPE(*CHAR) LEN(10) RANGE(10 60) +
0004.00                                MIN(1) FILE(*UNSPFD) PROMPT('Time +
0004.01                                Interval for Inquiry')
0005.00
0006.00          PARM          KWD(MRG) TYPE(*CHAR) LEN(10) RSTD(*NO) +
0007.00                                RANGE(0 10) PROMPT('Security +
0008.00                                Margin %')
0009.01
0009.02          PARM          KWD(MSG) TYPE(*CHAR) LEN(256) MIN(1) +
0009.03                                FILE(*UNSPFD) PROMPT('Mail message')
0009.05
0009.06          PARM          KWD(MAIL) TYPE(*CHAR) LEN(64) MIN(1) +
0009.07                                PROMPT('Mail address')
0010.00

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## XRTVSYSTS CLP (XRTVSYSTS CPP)

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0001.00 /* ===== */
0002.00 /* = PROGRAM..... XRTVSYSTS (ADAPTED TO CALL XCPYSPLF) = */
0003.00 /* = DESCRIPCION... RETRIEVE SYSTEM STATUS INFORMATION = */
0004.00 /* = AUTHOR..... JEAN-MARIE SAUVAGEOT = */
0004.01 /* ===== */
0005.00
0006.00          PGM          PARM(&INTER &MRG &TXT &MAIL)
0007.00
0008.00 /* ===== */
0009.00 /* = DECLARATIONS = */
0010.00 /* ===== */
0011.00          DCL          VAR(&RCVVAR) TYPE(*CHAR) LEN(68)
0012.00          DCL          VAR(&RCVVARLEN) TYPE(*CHAR) LEN(4)
0013.00          DCL          VAR(&FORMAT) TYPE(*CHAR) LEN(8)
0014.00          DCL          VAR(&RESET) TYPE(*CHAR) LEN(10)
0015.00          DCL          VAR(&BIN4NBR) TYPE(*CHAR) LEN(4)
0016.00          DCL          VAR(&DEC15NBR) TYPE(*DEC) LEN(15 0)
0017.00          DCL          VAR(&SYSASP) TYPE(*DEC) LEN(15 0)
0018.00          DCL          VAR(&SYSASPUSED) TYPE(*DEC) LEN(15 4)
0019.00          DCL          VAR(&TOTAUXTG) TYPE(*DEC) LEN(15 0)
0020.00          DCL          VAR(&CURUNPUSED) TYPE(*DEC) LEN(15 0)
0021.00          DCL          VAR(&MAXUNPUSED) TYPE(*DEC) LEN(15 0)
0022.00          DCL          VAR(&APIERROR) TYPE(*CHAR) LEN(272)
0023.00          DCL          VAR(&BYTESPROV) TYPE(*CHAR) LEN(4)
0024.00          DCL          VAR(&BYTESAVAIL) TYPE(*CHAR) LEN(4)
0025.00          DCL          VAR(&MSGID) TYPE(*CHAR) LEN(7)
0026.00          DCL          VAR(&MSGDTA) TYPE(*CHAR) LEN(256)
0027.00          DCL          VAR(&MSGF) TYPE(*CHAR) LEN(10)
0028.00          DCL          VAR(&MSGFLIB) TYPE(*CHAR) LEN(10)
0029.00
0030.00          DCL          VAR(&JOB) TYPE(*CHAR) LEN(10)
0031.00          DCL          VAR(&USER) TYPE(*CHAR) LEN(10)
0032.00          DCL          VAR(&JOBNBR) TYPE(*CHAR) LEN(6)
0033.00          DCL          VAR(&LIMIT) TYPE(*DEC) LEN(15 4)
0034.00          DCL          VAR(&TXT) TYPE(*CHAR) LEN(254)
0035.00          DCL          VAR(&TOTUS) TYPE(*DEC) LEN(15 4)
0036.00          DCL          VAR(&MAIL) TYPE(*CHAR) LEN(64)
0037.00          DCL          VAR(&INTER) TYPE(*CHAR) LEN(10)
0038.00          DCL          VAR(&MRG) TYPE(*CHAR) LEN(10)

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0039.00          DCL          VAR(&DECMRGNBR) TYPE(*DEC) LEN(15 0)
0039.01          DCL          VAR(&INTERNBR) TYPE(*DEC) LEN(15 0)
0040.00 /* ===== */
0041.00 /* = GLOBAL ERROR MONITOR = */
0042.00 /* ===== */
0043.00
0044.00          MONMSG      MSGID(CPF0000 MCH0000) EXEC(GOTO CMDLBL(ERROR))
0045.00
0046.00 /* ===== */
0047.00 /* = INITIALIZE VARIABLES = */
0048.00 /* ===== */
0049.00
0050.00          CHGVAR      VAR(&FORMAT) VALUE('SSTS0200')
0051.00          CHGVAR      VAR(&RESET) VALUE('*YES')
0052.00
0053.00          CHGVAR      VAR(%BIN(&RCVVARLEN)) VALUE(68)
0054.00          CHGVAR      VAR(%BIN(&BYTESPROV)) VALUE(272)
0055.00          CHGVAR      VAR(%BIN(&BYTESAVAIL)) VALUE(0)
0056.00          CHGVAR      VAR(%SST(&APIERROR 1 4)) VALUE(&BYTESPROV)
0057.00          CHGVAR      VAR(%SST(&APIERROR 5 4)) VALUE(&BYTESAVAIL)
0058.00
0059.00 /* ===== */
0060.00 /* = RETRIEVE SYSTEM STATUS INFORMATION = */
0061.00 /* ===== */
0062.00
0063.00          CALL          PGM(QWCRSSTS) PARM(&RCVVAR &RCVVARLEN +
0064.00                    &FORMAT &RESET &APIERROR)
0065.00
0066.00 /* ===== */
0067.00 /* = CHECK FOR ERROR AND PERCOLATE IF ONE EXISTS = */
0068.00 /* ===== */
0069.00
0070.00          CHGVAR      VAR(&BYTESAVAIL) VALUE(%SST(&APIERROR 5 4))
0071.00
0072.00          IF            COND(%BIN(&BYTESAVAIL) *NE 0) THEN(DO)
0073.00          CHGVAR      VAR(&MSGID) VALUE(%SST(&APIERROR 9 7))
0074.00          CHGVAR      VAR(&MSGDTA) VALUE(%SST(&APIERROR 17 256))
0075.00          CHGVAR      VAR(&MSGF) VALUE('QCPFMSG')
0076.00          CHGVAR      VAR(&MSGFLIB) VALUE('QSYS')
0077.00          GOTO          CMDLBL(SNDMSG)
0078.00          ENDDO
0079.00
0080.00 /* ===== */
0081.00 /* = EXTRACT SYSTEM STATUS INFORMATION = */
0082.00 /* ===== */
0083.00
0084.00          CHGVAR      VAR(&BIN4NBR) VALUE(%SST(&RCVVAR 49 4))
0085.00          CHGVAR      VAR(&SYSASP) VALUE(%BIN(&BIN4NBR))
0086.00
0087.00          CHGVAR      VAR(&BIN4NBR) VALUE(%SST(&RCVVAR 53 4))
0088.00          CHGVAR      VAR(&DEC15NBR) VALUE(%BIN(&BIN4NBR))
0089.00          CHGVAR      VAR(&SYSASPUSED) VALUE(&DEC15NBR / 10000)
0090.00
0091.00          CHGVAR      VAR(&BIN4NBR) VALUE(%SST(&RCVVAR 57 4))
0092.00          CHGVAR      VAR(&TOTAUXTG) VALUE(%BIN(&BIN4NBR))
0093.00
0094.00 /* ===== */
0095.00 /* = INSERT YOUR CODE THAT USES THE SYSTEM STATUS VALUES = */
0096.00 /* ===== */
0097.00
0098.00          NEXT:      RTVSYSVAL  SYSVAL(QSTGLOWLMT) RTNVAR(&LIMIT)
0098.01
0099.00          RTVJOBA    JOB(&JOB) USER(&USER) NBR(&JOBNBR)
0099.01
0099.02 /* ----- */
0099.03 /* - THE CRITICAL SITUATION ARISES WHEN - */
0099.04 /* - 100 - &LIMIT < &SYSASPUSED + &DECMRGNBR - */

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0099.05 /* - threshold less than disk used + security margin - */
0099.06 /* ----- */
0099.07
0100.00 CHGVAR VAR(&DECMRGNBR) VALUE(&MRG)
0101.00 CHGVAR VAR(&TOTUS) VALUE(&LIMIT + &SYSASPUSED + +
0102.00 &DECMRGNBR)
0103.00
0104.00 IF COND(&TOTUS > 100) THEN(DO)
0104.01 /* ----- */
0104.02 /* - WE ARE AT CRITICAL SITUATION: SEND A MAIL INFORMING THAT - */
0104.04 /* ----- */
0105.00 WRKSYSSTS OUTPUT(*PRINT) RESET(*YES)
0106.00 XCPYSPLF SPOOL(QPDSPSTS) JOB(&JOB) USER(&USER) +
0107.00 JOBNBR(&JOBNBR) SPOOLNBR(*LAST) POS(1) +
0108.00 SEL(*NE) VALOR(@) MAIL(&MAIL) TEXTO(&TXT)
0109.00 ENDDO
0109.01
0109.02 CHGVAR VAR(&INTERNBR) VALUE(&INTER)
0109.03 CHGVAR VAR(&INTERNBR) VALUE(&INTERNBR * 60)
0109.04
0109.05 DLYJOB DLY(&INTERNBR)
0109.06
0109.07 GOTO CMDLBL(NEXT)
0110.00
0111.00 /* ===== */
0112.00 /* = EXIT PROGRAM = */
0113.00 /* ===== */
0114.00
0115.00 RETURN
0116.00
0117.00 /* ===== */
0118.00 /* = ERROR ROUTINE = */
0119.00 /* ===== */
0120.00
0121.00 ERROR:
0122.00
0123.00 RCVMSG MSGTYPE(*EXCP) MSGDTA(&MSGDTA) MSGID(&MSGID) +
0124.00 MSGF(&MSGF) MSGFLIB(&MSGFLIB)
0125.00
0126.00 MONMSG MSGID(CPF0000 MCH0000)
0127.00
0128.00 SNDMSG:
0129.00
0130.00 SNDPGMMMSG MSGID(&MSGID) MSGF(&MSGFLIB/&MSGF) +
0131.00 MSGDTA(&MSGDTA) MSGTYPE(*ESCAPE)
0132.00
0133.00 MONMSG MSGID(CPF0000 MCH0000)
0134.00
0135.00 /* ===== */
0136.00 /* = END OF PROGRAM = */
0137.00 /* ===== */
0138.00
0139.00 ENDPGM

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## XCPYSPLF CMD

```

0001.00 CMD PROMPT('Sending spool file')
0002.00
0003.00 PARM KWD(SPOOL) TYPE(*CHAR) LEN(10) MIN(1) +
0004.00 PROMPT('Spool file name')
0005.00
0006.00 PARM KWD(JOB) TYPE(*CHAR) LEN(10) MIN(1) +

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0007.00          PROMPT('Job Name')
0008.00
0009.00          PARM          KWD(USER) TYPE(*CHAR) LEN(10) MIN(1) +
0010.00          PROMPT('Spool User''s Name')
0012.00
0013.00          PARM          KWD(JOBNBR) TYPE(*CHAR) LEN(6) MIN(1) +
0014.00          PROMPT('Job Number')
0015.00
0016.00          PARM          KWD(SPOOLNBR) TYPE(*CHAR) LEN(11) MIN(1) +
0017.00          PROMPT('Spool Number')
0018.00
0019.00          PARM          KWD(POS) TYPE(*CHAR) LEN(10) MIN(1) +
0020.00          PROMPT('Chosen character position')
0021.00
0022.00          PARM          KWD(SEL) TYPE(*CHAR) LEN(3) MIN(1) +
0023.00          CHOICE('*EQ *NE *GT *LT, etc') +
0024.00          PROMPT('Selection Criteria')
0025.00
0026.00          PARM          KWD(VALOR) TYPE(*CHAR) LEN(1) MIN(1) +
0027.00          PROMPT('Character to select or omit')
0028.00
0029.00          PARM          KWD(MAIL) TYPE(*CHAR) LEN(64) MIN(1) +
0030.00          PROMPT('Mail address')
0031.00
0032.00          PARM          KWD(TEXTO) TYPE(*CHAR) LEN(254) MIN(1) +
0033.00          PROMPT('Mail message')

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## XCPYSPLF CLP (XCPYSPLF CPP)

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0001.00          PGM          PARM(&SPOOL &JOB &USER &JOBNBR &SPOOLNBR +
0002.00          &POS &SEL &VALOR &MAIL &MSG)
0003.00          DCL          VAR(&SPOOL) TYPE(*CHAR) LEN(10)
0004.00          DCL          VAR(&FILE) TYPE(*CHAR) LEN(10) VALUE(XSPOOL)
0005.00          DCL          VAR(&FIL1) TYPE(*CHAR) LEN(10) VALUE(XSPOOL1)
0006.00          DCL          VAR(&LIB) TYPE(*CHAR) LEN(10) VALUE(QTEMP)
0007.00          DCL          VAR(&JOB) TYPE(*CHAR) LEN(10)
0008.00          DCL          VAR(&USER) TYPE(*CHAR) LEN(10)
0009.00          DCL          VAR(&JOBNBR) TYPE(*CHAR) LEN(6)
0010.00          DCL          VAR(&SPOOLNBR) TYPE(*CHAR) LEN(11)
0011.00          DCL          VAR(&POS) TYPE(*CHAR) LEN(10)
0012.00          DCL          VAR(&SEL) TYPE(*CHAR) LEN(3)
0013.00          DCL          VAR(&VALOR) TYPE(*CHAR) LEN(1)
0014.00          DCL          VAR(&MAIL) TYPE(*CHAR) LEN(64)
0015.00          DCL          VAR(&MSG) TYPE(*CHAR) LEN(254)
0016.00          CRTPF          FILE(&LIB/&FILE) RCDLEN(198)
0017.00          MONMSG          MSGID(CPF0000)
0018.00          CLRPFM          FILE(&LIB/&FILE)
0019.00          MONMSG          MSGID(CPF0000)
0020.00          CPYSPLF          FILE(&SPOOL) TOFILE(&LIB/&FILE) +
0021.00          JOB(&JOBNBR/&USER/&JOB) SPLNBR(&SPOOLNBR)
0022.00          CRTPF          FILE(&LIB/&FIL1) RCDLEN(198)
0023.00          MONMSG          MSGID(CPF0000)
0024.00          CPYF          FROMFILE(&LIB/&FILE) TOFILE(&LIB/&FIL1) +
0025.00          MBROPT(*REPLACE) CRTFILE(*NO) +
0026.00          INCCHAR(*RCD &POS &SEL &VALOR) FMTOPT(*NOCHK)
0027.00          CPYTOSTMF          +
0028.00          FROMMBR(' /QSYS.LIB/QTEMP.LIB/XSPOOL.FILE/XS+
0029.00          POOL.MBR') +
0030.00          TOSTMF(' /QDLS/DOWNLOAD/XSPOOL.TXT') +
0031.00          STMFOPT(*REPLACE) STMFCODPAG(*PCASCII)
0032.00          CHGAUT          OBJ(' /QDLS/DOWNLOAD/XSPOOL.TXT') +
0033.00          USER(*PUBLIC) DTAAUT(*RWX) OBJAUT(*ALL)
0034.00          SNDDST          TYPE(*DOC) TOININET((&MAIL)) DSTD('Selected +
0035.00          spool file') MSG(&MSG) DOC(XSPOOL.TXT) +

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0036.00  
0037.00

ENDPGM

FLR(DOWNLOAD)