

APPENDIX K : SAMPLE SOURCE CODE: QA9 PROCEDURE QTSYNOPS CMS-2 AND TRANSLATOR PRODUCED ADA

This appendix contains source code for QTSYNOPS, one of the QA9 procedures translated during Quick Look. The source code included is for CMS-2 QTSYNOPS and the Ada QTSYNOPS produced by the three translators. The source code is included so that the reader can see how the CMS-2 code translate. All of QA9 at various stages of the translation process is being made available on the Web.

CMS-2 QTSYNOPS

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CQT 0546 (EXTDEF)  PROCEDURE QTSYNOPS $
CQT 0547 COMMENT   PUT QA NUMBER IN HEADER $
CQT 0548           SET CHAR(28,4) (VHSYNHED) TO VMTESTNO $
CQT 0549           QTHEAD INPUT VHSYNHED $
CQT 0550 IF VINOTSTS LT 1 THEN RETURN$
CQT 0551           SET VHTEMP TO H( ) ''TOP OF FORM CONTROL VRBL'' $
CQT 0552 LOOP.     VARY VSX2 THRU 4 $
CQT 0553 QTSYV1.   VARY VX1 THRU (VINOTSTS-1) $
CQT 0554 QTSYW4.   SET VX2 TO TAQR(VX1,ERRORNO) $
CQT 0555 QTSYN1.   IF VX2 EQ 0 THEN RESUME QTSYV1 $
CQT 0556 COMMENT   IF THE CODE IS 0 THEN NO TST IS EXPECTED.BYPASS MESSAGE $
CQT 0557           SET VIH1L TO VX1 $
CQT 0558 COMMENT   SAVE LOOP INDEX$
CQT 0559           SET VX1 TO VSX1*5+VX1 ''COMPUTE TEST NO. FROM LOOP
INDEX''$
CQT 0560           IF VSX2 NOT 0 THEN GOTO FAIL $
CQT 0561           IF VITESTYP EQ 0 THEN GOTO FAIL $
CQT 0562 COMMENT   ''MUST BE QA SO NO LIST OF TESTS PASSED NEEDED'' $
CQT 0563           IF VPASS THEN GOTO PASS$
CQT 0564 comment   OUTPUT PRINT (VHASTER ,VHFOLLOW,VHPASS,VHASTER) FHEDSYN $
CQT 0565           SET VPASS TO 1 $
CQT 0566 PASS.     IF VX2 NOT 6 THEN GOTO FAIL $
CQT 0567           SET VIX3 TO (VX1+1) + 1000*(VITESTNO-10) $
CQT 0568 comment   OUTPUT PRINT VIX3 FPASS $
CQT 0569 COMMENT   PRINTS A LIST OF TESTS THAT PASSED $
CQT 0570           GOTO LOOPRES1$
CQT 0571 FAIL.     IF VSX2 NOT 1 THEN GOTO NOTEXEC $
CQT 0572           IF VX2 EQ 7 THEN GOTO EXECHED ''PRINT OUT HEADER IF FIRST
CQT 0573           FAILURE IS A GENERATION ERROR '' $
CQT 0574           IF VX2 GT 5 AND VX2 LT 9D THEN QTCONSW USING VX2 THEN
CQT 0575           ''RECORDS TESTS EXECUTED''
CQT 0576           GOTO LOOPRES1 $
CQT 0577           IF VX2 GT 5D THEN GOTO NOTEXEC $
CQT 0578 EXECHED.  IF VEXEC THEN GOTO EXEC1 ''SKIP HEADER'' $
CQT 0579           IF VITESTYP EQ 1 ''QR TEST'' THEN SET VHTEMP TO H(1) $
CQT 0580 comment   OUTPUT PRINT VHTEMP ''TOP OF FORM IF THIS IS A QR TEST'' $
CQT 0581 comment   OUTPUT PRINT (VHASTER ,VHFOLLOW,VHFAIL,VHASTER)
CQT 0582           FHEDSYN $

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CQT 0583 comment OUTPUT PRINT H(0) $
CQT 0584 SET VEXEC TO 1 $
CQT 0585 EXEC1. QTCONSW USING VX2 ''PRINT OUT
CQT 0586 EXECUTION ERROR'' $
CQT 0587 GOTO LOOPRES1 $
CQT 0588 NOTEXEC. IF VSX2 NOT 2 THEN GOTO NOTSKIP $
CQT 0589 IF VITESTYP EQ 0 THEN GOTO QTSYN2
CQT 0590 ''MUST BE QA TEST SO NO LIST OF SKIPPED TESTS NEEDED'' $
CQT 0591 IF VX2 NOT 30D THEN GOTO NOTSKIP $
CQT 0592 IF VSKIP THEN GOTO SKIP $
CQT 0593 comment OUTPUT PRINT (VMASTER1,VHFOLLOW,VHSKIP,VMASTER) FHEDSYN$
CQT 0594 comment OUTPUT PRINT H(0) $
CQT 0595 SET VSKIP TO 1 $
CQT 0596 SKIP. SET VAX1 TO VITESTNO-10 $
CQT 0597 SET VIX3 TO (VX1+1)+1000D*VAX1 $
CQT 0598 comment OUTPUT PRINT VIX3 FPASS $
CQT 0599 COMMENT PRINTS A LIST OF TESTS THAT WERE SKIPPED (CODE 30) $
CQT 0600 GOTO LOOPRES1$
CQT 0601 NOTSKIP. IF VSX2 NOT 3 THEN GOTO NOTVIS $
CQT 0602 IF VX2 GT 13D THEN GOTO NOTVIS $
CQT 0603 IF VX2 LT 9D THEN GOTO LOOPRES $
CQT 0604 IF VITESTYP EQ 0 THEN GOTO QTSYN2
CQT 0605 ''THIS MUST BE A QA TEST SO NO VISUALS'' $
CQT 0606 IF VVIS THEN GOTO VISUAL $
CQT 0607 comment OUTPUT PRINT (VMASTER1,VHFOLLOW,VHVISUAL,VMASTER)
CQT 0608 FHEDSYN $
CQT 0609 comment OUTPUT PRINT H(0) $
CQT 0610 SET VVIS TO 1 $
CQT 0611 VISUAL. QTERRD ''VISUAL TESTS PRINT OUT '' $
CQT 0612 GOTO LOOPRES1 $
CQT 0613 NOTVIS. IF VSX2 NOT 4 OR VX2 LT 6 OR(VX2
CQT 0614 GT 8D AND VX2 LT 14D) OR VX2 EQ 30D THEN GOTO LOOPRES $
CQT 0615 IF VITESTYP EQ 0 THEN GOTO QTSYN2
CQT 0616 ''THIS MUST BE A QA TEST SO NO SPECIALS'' $
CQT 0617 IF VSPEC THEN GOTO SPEC1 $
CQT 0618 comment OUTPUT PRINT (VMASTER1,VHFOLLOW,VHSPEC,VMASTER)
CQT 0619 FHEDSYN $
CQT 0620 comment OUTPUT PRINT H(0) $
CQT 0621 SET VSPEC TO 1 $
CQT 0622 SPEC1. QTERRE ''ERROR CODES 14-29'' $
CQT 0623 COMMENT ((LINE* $
CQT 0624 LOOPRES1. SET TAQRTYP(VX2,TERRORCT) TO TAQRTYP(VX2,TERRORCT) +1$
CQT 0625 LOOPRES. SET VX1 TO VIH1L $
CQT 0626 END QTSYV1 $
CQT 0627 END LOOP $
CQT 0628 COMMENT PRINT OUT HEADER AND ALL TOTALS $
CQT 0629 QTSYN2. QTMESW USING 4$
CQT 0630 COMMENT PRINT OUT NUMBER OF STUBBED TESTS $
CQT 0631 IF STUBCNT NOT 0 THEN BEGIN $
CQT 0632 comment OUTPUT PRINT STUBCNT FORMSTUB $
CQT 0633 END $
CQT 0634 SET VEXEC,VVIS,VSPEC,VPASS,VSKIP TO 0 ''RESET FLAGS'' $
CQT 0635 comment OUTPUT PRINT H(A) ''CLEAR MAJOR HEADER AND TOP OF FORM''$
CQT 0636 RETURN $

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