

ADAS Subroutine check_pipe

SUBROUTINE CHECK_PIPE

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C
C ***** FORTRAN77 PROGRAM: CHECK_PIPE *****
C
C VERSION: 1.0
C
C PURPOSE: DIAGNOSTIC CHECK ON THE STATE OF THE FORTRAN-IDL PIPE
C
C NOTES: THE EQUIVALENT IDL CHECK_PIPE PROCEDURE MUST BE PUT IN
C THE IDL CODE TO COMMUNICATE WITH THIS FORTRAN SUBROUTINE.
C BOTH ROUTINES WRITE A STRING, READ A STRING AND THEN CHECK
C WHETHER THAT STRING IS AS EXPECTED. A MESSAGE IS THEN
C OUTPUT INDICATING WHETHER THE PIPE WAS EMPTY BEFORE THE CALLS
C WERE MADE, SO TELLING THE USER WHETHER PIPE COMMUNICATIONS
C BETWEEN THE IDL AND FORTRAN HAD BEEN SUCCESSFUL UP TO THAT
C POINT.
C
C RATHER THAN GIVING THE 'ERROR' MESSAGE, THE FORTRAN MAY CRASH
C INDICATING THAT THE IDL HAS WRITTEN TOO MUCH DATA TO THE PIPE
C BEFORE THIS CALL AND THAT THE DATA WAS NOT A STRING.
C
C IF THE FORTRAN OR IDL HANGS IN THIS ROUTINE THEN THERE IS A
C MAJOR (>129 CHARACTER) BLOCKAGE IN THE PIPE.
C
C PROGRAM:
C (I*4) PIPEIN = PIPE INPUT STREAM FROM IDL
C (I*4) PIPEOU = PIPE OUTPUT STREAM TO IDL
C (C*129) A = OUTPUT STRING
C (C*129) B = INPUT STRING
C
C ROUTINES:
C ROUTINE SOURCE BRIEF DESCRIPTION
C-----
C XXFLSH ADAS FLUSHES I/O BUFFER
C I4UNIT ADAS STANDARD ERROR OUTPUT (SET UP IN XX0000)
C-----
C AUTHOR: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C
C DATE: 5TH JULY 1996
C
C VERSION: 1.1 DATE: 05-07-96
C MODIFIED: WILLIAM OSBORN
C - FIRST VERSION.
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