,

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PROGRAM RC36-00238.00

SNOOPER

; ABSTRACT: THIS PROGRAM IS A UTILITY PROGRAM; INTERCEPTING MESSAGES AND ANSWERS; EXCHANGED BETWEEN TWO PROCESSES.; INFORMATION CONCERNING THE COMMUNICATION BETWEEN THE PROCESSES WILL BE PRODUCED

MUS, UTILITY PROGRAM.

on a device selected by the user.
The program must be operated from TTY.

;RCSL:43-GL2270 ASCII SOURCE. ;RCSL:43-GL2272 REL. BIN.

IKEYWORDS:

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; RC36-00238 PAGE 01 SNOOPER ;TITLE: THIS PROGRAM IS A UTILITY PROGRAM ; ABSTRACT: INTERCEPTING MESSAGES AND ANSWERS EXCHANGES BETWEEN TWO PROCESSES. INFORMATION CONCERNING THE COMMUNICATION BETWEEN THE PROCESSES WILL BE PRODUCED ON A DEVICE SELECTED BY THE USER. THE PROGRAM MUST BE OPERATED FROM TTY. 3300 BYTES. INCLUDING : SIZE: ONE 80 BYTES OPERATOR (TTY) BUFFER. THREE 512 BYTES OUTPUT BUFFERS. JDATE: 76.01.16 JGENERAL INFORMATION : ******* IN THE MUS SYSTEM ALL I/O OPERATIONS ARE EFFECTUATED BY SENDING MESSAGES TO DRIVER PROCESSES, WHICH HANDLE THE ACTUAL DATA-TRANSPORTS. STATUS INFORMATION AND OTHER SIGNIFICANT DATA ARE RETURNED AS ANSWERS FROM THE DRIVERS TO THE REQUESTING PROCESSES AFTER DATA TRANSPORT COMPLETION. THIS PROGRAM PRODUCES A LOG OF THE MESSAGES SENT TO A GIVEN PROCESS (SPECIFIED BY THE USER) AND OF THE SUBSEQUENTLY RECEIVED ANSWERS. THE LOG CONSISTS OF THE NAME OF THE SENDING PROCESS FOLLOWED BY THE CONTENTS OF THE FOUR MESSAGE WORDS AND INFORMATION EXPRESSING THE NUMBER OF TIMER-PERIODS, WHICH HAVE ELAPSED, SINCE LAST ANSWER WAS RETURNED

TO THE SENDING PROCESS. FURTHERMORE THE FOUR

WORDS IN THE ANSWER TO THE SENDING PROCESS

INFORMATION EXPRESSING THE NUMBER OF TIMER-

FROM THE SENDING PROCESS WAS DELIVERED TO THE DRIVER PROCESS UNTIL THE ANSWER FROM THE

NUMBER OF DATA BYTES HANDLED BY THE DRIVER

PERIODS, WHICH HAVE ELAPSED - FROM THE MESSAGE

DRIVER IS INTERCEPTED BY THE "SNOOPER", AND A

AS A RESULT OF THE DISPATCHED MESSAGE,

WILL BE WRITTEN IN THE LOG.

U1

02

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; "SNOOPER" OPERATION :
WHEN THE PROGRAM HAS BEEN LOADED AND STARTED
        THE MESSAGE :
3
        SNOOPER READY
        WILL BE DISPLAYED, INDICATING THAT THE PROGRAM
,
,
        IS ABLE TO ACCEPT USER INITIALIZATION PARAMETER
7
        ANSWERS :
        MODULE NAME :
3
        THE ANSWER TO THIS QUESTION MUST BE A NAME OF
        THE DRIVER PROCESS, WHICH IS WANTED TO BE
7
        "SNOOPED" (E.G. MTO, SMD).
        IF THE PROCESS IS NOT FOUND "UNKNOWN" IS DISPLAYED
7
        FOLLOWED BY THE SAME QUESTION AGAIN.
7
        IF THE PROCESS IS FOUND, THE NAME OF THE PROCESS
        WILL BE EXCHANGED WITH THE NAME OF THE "SNOOPER"
        (SNOOP). THE "SNOOPER" WILL RENAME IT'S OWN NAME TO
        THE NAME OF THE DRIVER PROCESS.
                DUE TO THE EXCHANGE OF THE PROCESS NAMES,
        NOTE:
                 IT IS RECOMMENDED TO INITIALIZE THE
        ****
                 "SNOOPER" BEFORE STARTING THE PROCESS(ES)
                 COMMUNICATION WITH THE RECEIVING PROCESS.
3
        SNOOP OUTPUT :
7
        THE ANSWER TO THIS QUESTION MUST BE A NAME OF A
;
        DRIVER PROCESS, WHICH IS ABLE TO HANDLE OUTPUT
1
         (E.G. MTO, LPT). THE OUTPUT FROM THE "SNOOPER"
3
        IS SENT TO THE SELECTED DRIVER IN ASCII CHARS.
        START COUNT :
;
        THE ANSWER TO THIS QUESTION MUST BE THE NUMBER OF
        BYTES FROM THE BEGINNING OF THE BLOCK OF DATA
        HANDLED BY THE "SNOOPED" PROCESS, WHICH THE
        USER WANTS TO SEE.
        END COUNT :
3
        THE ANSWER TO THIS QUESTION MUST BE THE NUMBER OF
        BYTES COUNTED FROM THE ENDING OF THE BLOCK OF
        DATA HANDLED BY THE "SNOOPED" PROCESS, WHICH THE
3
        USER WANTS TO SEE.
        FILE NO :
,
        THE ANSWER TO THIS QUESTION MUST BE THE NUMBER
         OF THE FILE IN WHICH THE "SNOOPER" OUTPUT IS
         WRITTEN.
                 IT IS NOT ALL OUTPUT DRIVER PROCESSES
,
        NOTE:
                 WHICH ARE USING THIS INFORMATION; THE
7
         ***
                 ANSWER IS THEN DUMMY.
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02
                         WHEN THE INITIALIZATION PARAMETERS HAVE BEEN
U3
                         INITIALIZED, THEN THE "SNOOPER" PROGRAM
04
                         IS ABLE TO HANDLE MESSAGES TO THE "SNOOPED"
U5
                         PROCESS AND THE COMMUNICATING PROCESS MAY
06
                         BE STARTED.
υ7
                         WHEN THE USER WISHES TO TERMINATE THE
U8
                         "SNOOP"-OPERATION THE PROCESS EXECUTING THE
U9
                         "SNOOPER"-PROGRAM MUST BE BREAK'ED, BY MEANS
10
                         OF THE S-COMMAND : BREAK. THE NAME OF THE
11
                         PROCESS TO BE BRAK'ED IS THE NAME ANSWERED AS
12
                         RESPONSE TO THE QUESTION : MODULE NAME.
13
14
                 "SNOOPER" OUTPUT FORMAT :
15
                 ********
16
17
                         THE LOG-OUTPUT IS INITIATED WITH THE HEADING :
18
                         SNOOPER BEGIN : <NAME1>
19
                         <NAME1> MEANS, THE NAME OF THE RECEIVING PROCESS.
20
                         THE LOG-OUTPUT IS TERMINATED WITH THE TEXT :
21
                         SNOOPER END.
22
                         THE FORMAT OF THE MESSAGE/ANSWER INFORMATION :
23
                         <NAME2> <MESSO> <MESS1> <MESS2> <MESS3> <TIME1>
24
                                  <ANSWO> <ANSW1> <ANSW2> <ANSW3> <TIME2>
25
                                                                            <DATA>
26
27
28
                                                                            <DATA>
29
                         <NAME2> MEANS, THE NAME IDENTIFYING THE
30
                                         REQUESTING PROCESS.
31
                                         THE CONTENTS OF THE WORD X IN
                         <MESSX> MEANS,
32
                                         THE MESSAGE.
33
                                         THE NUMBER OF TIMER-PERIODS
                          <TIME1> MEANS,
34
                                         BETWEEN LAST ANSWER HAS BEEN
35
                                         RETURNED TO THE REQUESTING
36
                                         PROCESS AND THE MESSAGE IS
 37
                                         CATCHED BY THE "SNOOPER".
38
                         <ANSWX> MEANS, THE CONTENTS OF THE WORD X IN
39
                                         THE ANSWER TO THE MESSAGE.
 40
                          <TIME2> MEANS, THE NUMBER OF TIMER-PERIODS
 41
                                         WHICH HAVE ELAPSED WHILE THE
42
                                         DRIVER PROCESS IS HANDLING THE
43
                                         MESSAGE.
 44
                                  MEANS, THE DATA WHICH HAS BEEN HANDLED
                          <DATA>
 45
                                         BY THE DRIVER PROCESS.
 46
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