Burroughs Corporation

COMPUTER SYSTEMS GROUP
SANTA BARBARA PLANT

B1800/B1700 TERMINAL TEST

P.S. 2222 2608

PRODUCT SPECIFICATION

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
A	10/5/78		Original 7.0 Release
B	10/02/79		Changes for MARK 9.0 Release Replaced SPO with ODT throughout. 2-1 Updated EXAMPLE.
C	8/04/80		Changes for MARK 10.0 Release 1-1 Updated Program Switches (1).

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INTRODUCTION

TERMINAL/TEST is a general purpose program designed to be used with any NDL network controller. It provides a flexible media for testing I/O functions of terminals on-line under MCPII control.

Datacomm reads and writes are invoked through the use of test numbers (0 through 5). Keywords, "1800", "HELP", and "STOP" are also allowed as described under OPERATING INSTRUCTIONS.

To receive a printer file, explaining the program's operating instructions at BOJ time, set program switch "1" to non-zero.

EX: EX TERMINAL/TEST SW1=1

RELATED DOCUMENTATION

NAME	NUMBER
B1800/B1700 Software Operations Guide	1068731
B1800/B1700 NDL Reference Manual	1073715

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OPERATING INSTRUCTIONS

TEST 0 - TERMINAL TO ODT ONLY
TEST 1 - ODT TO TERMINAL ONLY
TEST 2 - ECHO TERMINAL MESSAGES
TEST 3 - ECHO ONLY NUMERIC DATA FROM TERMINAL
TEST 4 - CONVERSATIONAL - INPUT 1ST MSG FROM TERMINAL
TEST 5 - STOP <EOJ> - TERMINATE PROGRAM

<1800> * ENTERED FROM EITHER TERMINAL OR ODT WILL CAUSE
OR EXIT FROM CURRENT TEST
<STOP> * TO ALLOW NEW TEST NUMBER

<HELP> - ENTERED FROM EITHER TERMINAL OR ODT WILL SEND OUTPUT OF TEACH FILE TO THE PRINTER, BUT WILL NOT CAUSE EXIT FROM THE CURRENT TEST

EXAMPLE: EX TERMINAL/TEST
TERMINAL/TEST = <job number> BOJ
TERMINAL/TEST = <job number> ACCEPT
<job-number>AX3 (for numeric echo test)

NOTES:

1. For banking/accounting terminals which do not have an alpha capability or which transmit delimiters that, when echoed back, are not accepted by the terminal, TEST #3 will delete all non-numeric characters before echoing. The keyword "1800" is provided for this type terminal to allow termination of the current test.

2. TEST #3 specifically requires that the datacomm handler not utilize "CANDE" Requests and Control for this test.

TEST DESCRIPTIONS

TEST 0 — All messages entered at the terminal will be displayed on the system operator display terminal (ODT). The message flow is from terminal-to-CPU only.

TEST 1 — All messages entered at the system ODT prefixed by <job-number>AX will be displayed on the terminal. Message flow is from CPU-to-terminal only.

TEST 2 — All messages entered at the terminal will be sent to the CPU and returned to the terminal. The CPU will not display receipt of messages from the terminal.

TEST 3 — This test is identical to Test 2 except that messages returned to the terminal from the CPU will be stripped of all non-numeric characters and compressed before being echoed back to the originating terminal.

TEST 4 — This test allows communication between the CPU and a terminal in conversational mode. Once the originating message is sent from the terminal, messages may be sent alternately from the CPU and from the terminal.

TEST 5 — Upon entering <job-number>AX5, TERMINAL/TEST will terminate its execution mode. Test numbers may be entered only upon initialization at BOJ time or following input at the CPU or terminal of the keywords "1800" or "STOP".

APPENDIX A - SAMPLE NETWORK CONTROLLER

The following illustrates a simple valid network controller handler which, in conjunction with TERMINAL/TEST, will communicate either via the single-line control (SLC) or the multi-line control (MLC) to any terminal under test.

NOTE: SLC/MLC and the terminal's address must be compiled into the handler's specifications to match the existing configuration.

```
?CO NC NDL LI;
?FI MACRO NAME NDL/MACRO;
?FI ADDRESS NAME NDL/ADDRESS;
?FI LIBRARY NAME NDL/LIBRARY;
?DATA CARDS
%
%     This represents a simple network controller
%     of one line, one station.
%
DECLARATION:
   NIF = "NC"/"NIF".%
%
$NC LIST
$LIBRARY POLTCTDDYN  % DYNAMIC POLL REQUEST
$LIBRARY SELTCTDDYN  % DYNAMIC SELECT REQUEST
$LIBRARY AUTODYNCTL  % DYNAMIC CONTROL
%

%
$LIST
%
TERMINAL TI602:%
   TYPE = 8.           %  "TYPE" is vital for TD and TC terminals
   BUFFERSIZE = 16.    %  Adjust to terminal's buffer size
   ADDRESS =2.%        %  Length of terminal's address (2 char [aa])
   TRANSMISSION = 0.   %  Equals "1" if using transmission numbers
   REQUEST = POLTCTDDYN:RECEIVE,
             SELTCTDDYN:TRANSMIT.%  "POLTCTDDYN" & "SELTCTDDYN"
                                 %   requests must correspond with
                                 %   the above $LIBRARY statements.
%
STATION DEFAULT T:%
   TERMINAL TT602.%    "TT602" must correspond to a "TERMINAL"
                  %    statement above
MYUSE = INPUT,OUTPUT.%
RETRY = 25.%
FREQUENCY = 50,255.  %  Allows station "ODT" status
%
STATION ONE:%
```

```
      DEFAULT = T.        %  "T" must correspond as defined above.
      ADDRESS = "aa".     %  The data-comm address of the terminal.
      %
      LINE LI:
         STATION = ONE.   %  "ONE" must correspond to a "STATION"
                          %  statement above.
         ADDRESS = 7:14:0.   %  PORT: CHANNEL: ADAPTER of SLC or MLC
         CONTROL = AUTODYNCTL.   %  "AUTODYNCTL" must correspond with
                                 %  $LIBRARY statement above.
   %
   FILE REMOTE1:%
      FAMILY = ONE.%      "ONE" must correspond with "STATION"
                  %       statement above.
   %  RESIDENT = CORE.%   Or "RESIDENT = DISK"
   FINI.
   ?END
```

APPENDIX B - SAMPLE RUN-TIME ODT OUTPUT

```
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
ODT INPUT - %%%%%%%%%%%% EXAMPLE OF ACTUAL RUN SESSION %%%%%%%%%%%%
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - EX KENS/DLEOT (*) PR=14
ODT OUTPUT: KENS/DLEOT =2887 BOJ. PP=14, MP=14 TIME = 08:13:55.5
ODT INPUT - MC TERMINAL/TEST FI REMOTE (**) NAME REMOTE6 (***)
ODT OUTPUT: "TERMINAL/TEST" MODIFIED.
ODT INPUT - EXECUTE TERMINAL/TEST
ODT OUTPUT: TERMINAL/TEST =2888 BOJ.  PP=4, MP=4 TIME = 08:14:28.3
ODT OUTPUT: % TERMINAL/TEST =2888 0 = TERM TO ODT *** 3 = NUMERIC ECHO
ODT OUTPUT: % TERMINAL/TEST =2888 1 = ODT TO TERM *** 4 = CONVERSATIONAL
ODT OUTPUT: % TERMINAL/TEST =2888 2 = ECHO TERMINAL *** 5 = STOP <EOJ>
ODT OUTPUT: % TERMINAL/TEST =2888     <1800>,<STOP> WILL CAUSE EXIT
                                       FROM CURRENT TEST
ODT OUTPUT: %TERMINAL/TEST =2888      <HELP> WILL OUTPUT TEACH-FILE
                                       TO PRINTER
ODT OUTPUT: TERMINAL/TEST =2888 ACCEPT.
ODT INPUT - %%% FIRST TEST WILL BE ODT TO TERMINAL (TEST 1)
ODT INPUT - %%%
ODT INPUT - 2888AX1
ODT OUTPUT: TERMINAL/TEST =2888 ACCEPT.
ODT INPUT - 2888AX THIS IS THE FIRST MESSAGE SENT TO THE TERMINAL
ODT OUTPUT: TERMINAL/TEST =2888 ACCEPT.
ODT INPUT - 2888AX THIS IS THE SECOND MESSAGE SENT TO THE TERMINAL
ODT OUTPUT: TERMINAL/TEST =2888 ACCEPT.
ODT INPUT - %%%
ODT INPUT - %%% NOW TO STOP TEST TO ALLOW ENTRY OF ANOTHER TEST
                (STOP OR 1800)
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - 2888AXSTOP
ODT OUTPUT: % TERMINAL/TEST =2888 0 = TERM TO ODT *** 3 = NUMERIC ECHO
ODT OUTPUT: % TERMINAL/TEST =2888 1 = ODT TO TERM *** 4 = CONVERSATIONAL
ODT OUTPUT: % TERMINAL/TEST =2888 2 = ECHO TERMINAL *** 5 = STOP <EOJ>
ODT OUTPUT: % TERMINAL/TEST =2888     <1800>,<STOP> WILL CAUSE EXIT
                                       FROM CURRENT TEST
ODT OUTPUT: % TERMINAL/TEST =2888     <HELP> WILL OUTPUT TEACH-FILE
                                       TO PRINTER
ODT OUTPUT: TERMINAL/TEST =2888 ACCEPT
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - %%% NOW FOR TERMINAL TO ODT (TEST #0)
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - 2888AX0
ODT INPUT - %%%
ODT INPUT - %%%
```

```
ODT OUTPUT: % TERMINAL/TEST =2888 MESSAGE 1 FROM TERMINAL
ODT OUTPUT: % TERMINAL/TEST =2888 MESSAGE 2 FROM TERMINAL
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - %%% NOW TO END TEST TO ALLOW ENTRY OF ANOTHER TEST
                (STOP OR 1800)
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - %%%%
ODT OUTPUT: % TERMINAL/TEST =2888 1800
ODT OUTPUT: % TERMINAL/TEST =2888 0 = TERM TO ODT *** 3 = NUMERIC ECHO
ODT OUTPUT: % TERMINAL/TEST =2888 1 = ODT TO TERM *** 4 = CONVERSATIONAL
ODT OUTPUT: % TERMINAL/TEST =2888 2 = ECHO TERMINAL *** 5 = STOP <EOJ>
ODT OUTPUT: % TERMINAL/TEST =2888     <1800>,<STOP> WILL CAUSE EXIT
                                       FROM CURRENT TEST
ODT OUTPUT: % TERMINAL/TEST =2888     <HELP> WILL OUTPUT TEACH-FILE
                                       TO PRINTER
ODT OUTPUT: TERMINAL/TEST =2888 ACCEPT.
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - %%% TO END SESSION, ENTER TEST #5
ODT INPUT - %%%
ODT INPUT - %%%
ODT INPUT - 2888AX5
ODT OUTPUT: % TERMINAL/TEST =2888 GOING TO EOJ
ODT OUTPUT: TERMINAL/TEST =2888 EOJ. TIME = 08:23:34.0
ODT INPUT - QC
ODT OUTPUT: KENS/DLEOT =2887 EOJ. TIME = 08:23:50.1
ODT INPUT - %%%
ODT INPUT - %%%
          - %%%%%%%%%%%%%%%%%%%%%% 30 %%%%%%%%%%%%%%%%%%%%%%
```

(*) KENS/DLEOT represents the present NDL Network Controller being used on the system for data-communications. This is only illustrative.

(**) "REMOTE" represents the internal file name of "TERMINAL/TEST". "REMOTE" must be file equated to the appropriate remote file of the existing network controller.

(***) "REMOTE6" represents the appropriate remote file name of this network controller; (KENS/DLEOT) being used for illustrative purposes only.

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