

ND-100 OPERATOR'S

# OPERATOR'S COMMUNICATION INSTRUCTION SURVEY 

## CONTROL FUNCTIONS (Does not affect DISPLAY)

|  | System Control |
| :---: | :---: |
|  | Enter Operator's Communication mode |
|  | Leave Operator's Communication mode |
|  | Generate Master Clear |
|  | Stop Program and enter OPCOM Mode |
|  | Load according to ALD code (read by I12/) |
|  | Load from device $x$ |
|  | Program Control |
| xxxxxx! | Continue Program from address of program counter Start Program from address $x$ |
|  | Execute a Single Instruction according to program counter |
| xxxxxxZ | Execute x Instructions from address of program counter |
| xxxxxx ${ }^{-1}$ xxxxxx" | Execute Program until program counter $=x$ and stop Execute Instruction Code x repeatedly |
| xxxxxx10/nnnnnn | Execute IOX instruction with device number x |

Miscellaneous Functions
xxx\#
Do Memory Test in segment x from address of B register to address of X register. $\mathrm{P}=$ Fail Address, $\mathrm{T}=$ Fail Bits, D $=$ Fail Pattern, L = Test Pattern.
space or @ Delete entry
*nnnnnn Current Location of memory examine is $n$ ( 16 least sign. bits)
OPR/nnnnnnn zzzzzz



#### Abstract

Memory Ef Set Physical Examine mode (default after MACL) XEl Set Virtual Examine mode. Map via page table x . xxxxxxxx/ nnnnnn zzzzzzt Examine and Change Content of memory address $x$ from $n$ to z. x is 24 bits at Physical and 16 bits at Virtual Examine. xxxxxx< yyyyy . ump Content of memory from address x to address y . Select 64 K area of last Examine.


Registers
xxRy/nnnnnn zzzzzz. Examine and Change Content of register Ry on level $x x$ from $n$ to $z$. Ry may be written as $R 0=S, R 1=D, R 2=P$, $R 3=B, \quad R 4=L, R 5=A, R 6=T, R 7=X$.
$\mathrm{xx}<\mathrm{yyRD}$ d Dump Registers R0 to R7 from level x to level y .
$\mathrm{U} / \mathrm{nnnnnn}$ Content of User Register is n
OPR/nnnnnn zzzzzz \& Change Operators Panel "Switches" from $n$ to $z$
Internal Registers
|xx/nnnnnn Content of Internal Register No. x is n
lyy/nnnnnn zzzzzzd Deposit z in Internal Registers No. y ( n is dummy) $y$ (4 bits):

| PANC | 1 = STS | 2 |
| :---: | :---: | :---: |
| 3 = PCR | $5=\mathrm{IIE}$ | $6=$ PID |
|  | $10=$ CCLR |  |
| $12=$ UCIL | $15=$ ECCR |  |

IRD Dump Internal Registers $0-15$ (only in STOP)
$x x<y y R D E \downarrow$ Dump Scratch Registers from level $x$ to level $y$

## Deposit Rules

Content is only changed by zzzzzz $\downarrow$ in STOP mode and by zzzzzzDEP $\downarrow$ in STOP or RUN mode.

Content is unchanged by $\downarrow$ in STOP or RUN mode and by zzzzzz in RUN mode (? is answered).

Explanations:
$\square=$ Control Panel Button
= Carriage Return
n = computer answer
All other characters are typed by Operator.


