SDS 940 OLDS DIAGNOSTIC SYSTEM

UPDATE INSTRUCTIONS

SDS 870029-61A February 1969

SDS

SCIENTIFIC DATA SYSTEMS • 701 South Aviation Boulevard • El Segundo, Calif., 90245 • 213/772-4511

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```
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*
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*
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*
```

CREATING AN 8LDS MASTER FROM A 940 TIME SHARING FILES TAPE:

1. REQUEST AN INPUT OF THE FILES TAPE BY THE OPERATORS OF THE

SDS 940 TIME SHARING USING FILES TAPE 870029-35.
2. THREE ACCOUNTS ARE NECESSARY TO HOLD ALL THE FILES. AN ACCOUNT NUMBER WILL HAVE TO BE REQUESTED FROM THE THE TIME SHARING DEPARTMENT.
3. IF FILES ARE NOT IN THE RESIDENT ACCOUNT, THE PROCEDURES WHICH CALL THE RESPECTIVE FILES MUST BE PREFIXED BY THE ACCOUNT NUMBER IN THE FORMAT: (ACCOUNT NUMBER) /FILE/.
FUTHER INFORMATION CAN BE REQUESTED FROM THE TIME SHARING DEPARTMENT.
4. AFTER THE CORRECTION HAS BEEN MADE, IT IS NECESSARY TO MAKE A NEW FILES TAPE TO PRESERVE THE CHANGE. THE 940 OPERATOR WILL ASSIST IN GENERATING THE FILES TAPE CORRECTLY.

ASSEMBLING THE UNIT PROGRAMS:

1. ALL SYMBOLIC UNIT PROGRAMS ARE OF THE FORM /XUYYV3/, WHERE X IS A NUMBER FROM ZERO THROUGH FIVE THAT DEFINES THE POSITION OF THE SYMBOLIC FILE. YY IS THE DISCRETE UNIT NUMBER. V DENOTES A PUBLIC FILE AND THE THREE SPECIFIES RELEASE 3.0.
2. ASSEMBLE EACH UNIT PROGRAM USING ITS SPECIFIC INSTRUCTIONS. IT IS NECESSARY TO ASSEMBLE ONLY THE UNIT PROGRAM THAT NEEDS THE UPDATING.

***TO ASSEMBLE (BLDS CONTROL 4.0)
EXECUTE THE FOLLOWING:

*TAP

*INPUT: /BLDSV4/
*BINARY: /BBLDSV4/
  BLD FILE

*TEXT OUTPUT: PR

*ASSEMBLE

*

***TO ASSEMBLE UNIT 0 (940 CPU DIAGNOSTICS 2.0).
EXECUTE THE FOLLOWING:

*GO /ZTAPV/

*INPUT: /F0UV3/
*INPUT: /1UUV2/
*INPUT: /2UUV2/
*INPUT: /3UUV2/
*INPUT: /4UUV2/
*INPUT: /5UUV2/
*BINARY: /BUUV2/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE

*

***TO ASSEMBLE UNIT 1 (940 CPU EXERCISERS 2.0).
EXECUTE THE FOLLOWING:

```
.TAP

*INPUT: /EQUV3/
*INPUT: /1U1V2/
*INPUT: /2U1V2/
*INPUT: /3U1V2/
*INPUT: /4U1V2/
*BINARY: /BU1V2/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE

*
```

***TO ASSEMBLE UNIT 2 (FPAU DIAGNOSTICS AND EXERCISERS 4.0)*
EXECUTE THE FOLLOWING:

```
.TAP

*INPUT: /EQUV3/
*INPUT: /1U2V4/
*INPUT: /2U2V4/
*INPUT: /3U2V4/
*BINARY: /BU2V4/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE
```



```
*
```

***TO ASSEMBLE UNIT 3 (MEMORY DIAGNOSTIC FOR 2ND 16K 2.0)*
EXECUTE THE FOLLOWING:

```
.TAP

*INPUT: /EQUV3/
*INPUT: /1U3V2/
*INPUT: /2U3V2/
*INPUT: /3U3V2/
*INPUT: /4U3V2/
*INPUT: /5U3V2/
*BINARY: /BU3V2/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE

*
```

***TO ASSEMBLE UNIT 4 (MEMORY DIAGNOSTIC FOR 3RD 16K 2.0)*
EXECUTE THE FOLLOWING:

```
.TAP
```

```
*INPUT: /EQUV3/
*INPUT: /1U4V2/
*INPUT: /2U4V2/
*INPUT: /3U4V2/
*INPUT: /4U4V2/
*INPUT: /5U4V2/
*BINARY: /BU4V2/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE

*
```

***TO ASSEMBLE UNIT 5 (MEMORY DIAGNOSTIC FOR 4TH 16K 2.0),
EXECUTE THE FOLLOWING:

```
*TAP

*INPUT: /EQUV3/
*INPUT: /1U5V2/
*INPUT: /2U5V2/
*INPUT: /3U5V2/
*INPUT: /4U5V2/
*INPUT: /5U5V2/
*BINARY: /BU5V2/
  NEW FILE

*TEXT OUTPUT: PR
```



```
*ASSEMBLE

*
```

***TO ASSEMBLE UNIT 12 (E * CHANNEL RAD DIAGNOSTICS AND
EXERCISERS 3.0), EXECUTE THE FOLLOWING:

```
*GO /ZTAPV/

*INPUT: /1U12V3/
*INPUT: /2U12V3/
*INPUT: /3U12V3/
*INPUT: /4U12V3/
*INPUT: /5U12V3/
*BINARY: /BU12V3/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE

*
```

***TO ASSEMBLE UNIT 15 (E * CHANNEL RAD DIAGNOSTICS AND
EXERCISERS 3.0), EXECUTE THE FOLLOWING:

```
*GO /ZTAPV/
```

```
+INPUT: /1U15J3/
+INPUT: /2U15J3/
+INPUT: /3U15J3/
+INPUT: /4U15J3/
+INPUT: /5U15J3/
+BINARY: /BU15J3/
  NEW FILE

+TEXT OUTPUT: PR

+ASSEMBLE


*




*


***TO ASSEMBLE UNIT 18 (E = CHANNEL DISC DIAGNOSTICS AND
EXERCISERS 4.0), EXECUTE THE FOLLOWING:


-GB /ZTAPJ/

+INPUT: /0U18J4/
+INPUT: /1U18J4/
+INPUT: /2U18J4/
+INPUT: /3U18J4/
```



```
+INPUT: /4U18J4/
+INPUT: /5U18J4/
+BINARY: /BU18J4/
  NEW FILE

+TEXT OUTPUT: PR

+NOLIST: MC
+ASSEMBLE


*


***TO ASSEMBLE UNIT 19 (F = CHANNEL DISC DIAGNOSTICS AND
EXERCISERS 4.0), EXECUTE THE FOLLOWING:


-GB /ZTAPJ/

+INPUT: /0U19J4/
+INPUT: /1U19J4/
+INPUT: /2U19J4/
+INPUT: /3U19J4/
+INPUT: /4U19J4/
+INPUT: /5U19J4/
+BINARY: /BU19J4/
  NEW FILE

+TEXT OUTPUT: PR

+NOLIST: MC
+ASSEMBLE
```

```
*

***TO ASSEMBLE UNIT 21 (W = CHANNEL DISC DIAGNOSTICS AND
EXERCISERS 4.0), EXECUTE THE FOLLOWING:


=TAP

*INPUT: /0U21J4/
*INPUT: /1U21J4/
*INPUT: /2U21J4/
*INPUT: /3U21J4/
*INPUT: /4U21J4/
*INPUT: /5U21J4/
*BINARY: /8U21J4/
  NEW FILE

*TEXT OUTPUT: PR

*NOLIST MC
*ASSEMBLE


*


***TO ASSEMBLE UNIT 23 (CTE 10/11 DIAGNOSTICS  2.0),
EXECUTE THE FOLLOWING:


=GO /ZTAPJ/

*INPUT: /EQUJ3/
```



```
*INPUT: /1U23J3/
*INPUT: /2U23J3/
*INPUT: /3U23J3/
*INPUT: /4U23J3/
*INPUT: /5U23J3/
*BINARY: /8U23J3/
  NEW FILE

*TEXT OUTPUT: PR

*ASSEMBLE


*


CREATING A **SAVE** FILE:

1.  ALL BINARY FILES HAVE TO BE CONVERTED BEFORE A PRELIMINARY TAPE
    OF THE OLDS SYSTEM CAN BE MADE.
2.  A SAVE FILE FOR EACH UNIT EXISTS IN THE THIRD ACCOUNT
    IN WHICH THE FILES TAPE WAS PLACED.  ONLY THE UNIT PROGRAM
    TO BE UPDATED NEED BE CONVERTED TO A SAVE FILE.
3.  SELECT THE PROPER UNIT NUMBER FROM THE FOLLOWING LIST AND
    USE THESE DIRECTIONS TO CREATE THE PROPER SAVE FILE MOTIF.
4.  IF THE OLDS CONTROL IS MODIFIED THE SAVE FILE STARTING ADDRESSES
    WILL BE CHANGED.  THE LISTED STARTING ADDRESSES ARE COINCIDENT
    WITH THE FOLLOWING LABELS:
    CONTROL + 1 = 666
    BACKIN      = 1400
    EOF         = 1415
    THE LISTING FOR THE NEW CONTROL WILL REFLECT THE NEW ADDRESSES.
5.  THE SAVE FILE STARTING ADDRESSES WILL HAVE TO BE ADJUSTED
    ACCORDINGLY.
```

6. IF THE OLDS CONTROL IS MODIFIED A NEW SAVE FILE FOR THE
/EOFV3/ WILL HAVE TO BE REDONE.

(CR) = CARRIAGE RETURN
(LF) = LINE FEED
(ESC) = ESCAPE

```
***TO GENERATE A SAVE FILE FOR OLDS CONTROL:

*RES
*DDT
OUT    /BOLDSV4/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 30 TO 3777 ON /BOLDSV4/ (CR)
  OLD FILE (LF)
STARTING AT 666 (CR)

*


***TO GENERATE A SAVE FILE FOR UNIT 0:

*RES
*DDT
OUT    /BU0V2/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U0V2/ (CR)
  OLD FILE (LF)
```



```
STARTING AT 1400 (CR)

*


***TO GENERATE A SAVE FILE FOR UNIT 1:

*RES
*DDT
OUT    /BU1V2/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U1V2/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)

*


***TO GENERATE A SAVE FILE FOR UNIT 2:

*RES
*DDT
OUT    /BU2V4/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U2V4/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)

*
```

```
***TO GENERATE A SAVE FILE FOR UNIT 3!

*RES
*DDT
O!T    /BU3V2/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U3V2/ (CR)
  BLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 4!

*RES
*DDT
O!T    /BU4V2/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U4V2/ (CR)
  BLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 5!
```



```
*RES
*DDT
O!T    /BU5V2/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U5V2/ (CR)
  BLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 12!

*RES
*DDT
O!T    /BU12V3/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U12V3/ (CR)
  BLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 15!

*RES
*DDT
O!T    /BU15V3/
```

```
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U15V3/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 18:

*RES
*DDT
CIT    /BU18V4/
[PROGRAM IDENT   ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 33777 ON /U18V4/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 19:

*RES
*DDT
CIT    /BU19V4/
[PROGRAM IDENT   ENDING ADDRESS]

(ESC)
(ESC)
```



```
*SAVE 4000 TO 33777 ON /U19V4/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 21:

*RES
*DDT
CIT    /BU21V4/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 33777 ON /U21V4/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)

*

***TO GENERATE A SAVE FILE FOR UNIT 23:

*RES
*DDT
CIT    /BU23V3/
[PROGRAM IDENT    ENDING ADDRESS]

(ESC)
(ESC)
*SAVE 4000 TO 27777 ON /U23V3/ (CR)
  OLD FILE (LF)
STARTING AT 1400 (CR)
```

```
*

***TO GENERATE A SAVE FILE FOR THE END OF FILE CODE:

*RES
*SAVE 4000 TO 27777 ON /EOFV3/ (CR)
  OLD FILE (LF)
STARTING AT 1415 (CR)

*

USING /TGENV/ TO CREATE A PRELIMINARY TAPE ON THE TIME SHARING
SYSTEM:

1.  EACH UNIT INCLUDING THE CONTROL PROGRAM FOR OLDS AND THE END OF
    FILE RECORD MUST TO SENT IN CORRECT ASSENDING ORDER TO THE
    OUTPUT TAPE.  THIS OUTPUT IS AN INDEPENDENT FILLABLE TAPE FOR
    EACH PROGRAM.
2.  THE OUTPUT TAPE IS USUALLY ADDRESSED AS MAGNETIC TAPE UNIT ONE.
3.  A CORRECT REQUEST AND ANSWER USE OF /TGENV/ FOLLOWS.

*GO /TGENV/

TYPE QUESTION MARK FOR INSTRUCTIONS  (CR)

>OUTPUT TO UNIT: 1 (CR)
>FILLABLE TAPE: YES
>INPUT FROM FILE: /OOLDSV4*0/
>GO
NUMBER OF RECORDS GENERATED = 11
SIZE OF LAST RECORD = 26
>INPUT FROM FILE: /U0V2/
>GO
NUMBER OF RECORDS GENERATED = 62
```



```
SIZE OF LAST RECORD = 42
>INPUT FROM FILE: /U1V2/
>GO
NUMBER OF RECORDS GENERATED = 113
SIZE OF LAST RECORD = 42
>INPUT FROM FILE: /U2V4/
>GO
NUMBER OF RECORDS GENERATED = 164
SIZE OF LAST RECORD = 42
>INPUT FROM FILE: /U3V2/
>GO
NUMBER OF RECORDS GENERATED = 215
SIZE OF LAST RECORD = 42
>INPUT FROM FILE: /U4V2/
>GO
NUMBER OF RECORDS GENERATED = 266
SIZE OF LAST RECORD = 42
>INPUT FROM FILE: /U5V2/
>GO
NUMBER OF RECORDS GENERATED = 317
SIZE OF LAST RECORD = 42
>INPUT FROM FILE: /U12V3/
>GO
NUMBER OF RECORDS GENERATED = 365
SIZE OF LAST RECORD = 131
>INPUT FROM FILE: /U15V3/
>GO
NUMBER OF RECORDS GENERATED = 413
SIZE OF LAST RECORD = 131
>INPUT FROM FILE: /U18V4/
>GO
NUMBER OF RECORDS GENERATED = 474
SIZE OF LAST RECORD = 9C
>INPUT FROM FILE: /U19V4/
>GO
```

```
NUMBER OF RECORDS GENERATED = 535
SIZE OF LAST RECORD = 90
>INPUT FROM FILE: /U21V4/
>GO
NUMBER OF RECORDS GENERATED = 596
SIZE OF LAST RECORD = 90
>INPUT FROM FILE: /U23V3/
>GO
NUMBER OF RECORDS GENERATED = 647
SIZE OF LAST RECORD = 48
>INPUT FROM FILE: /E0FV3/
>GO
NUMBER OF RECORDS GENERATED = 687
SIZE OF LAST RECORD = 195
> (ESC)
> (ESC)
.
```

CREATING THE BLDS MASTER:

1. A DEDICATED MACHINE WITH A CONSOLE TYPEWRITER, TWO MAGNETIC TAPE UNITS, AND AT LEAST 16384 WORDS OF MEMORY IS NEEDED. IT MUST BE A MACHINE IN THE 900 SERIES. ANY 940,930,OR 925 WILL DO.
2. THE PREVIOUSLY GENERATED /TGENV/ TAPE IS TO BE MOUNTED ON MAGNETIC TAPE UNIT ADDRESS ZERO. THE FILE PROTECT RING IS TO BE REMOVED. THE OUTPUT TAPE IS MAGNETIC TAPE UNIT ADDRESS ONE.
3. CLEAR THE COMPUTER MEMORY AND PRESS THE START BUTTON.
4. PUT THE IDLE-STEP-RUN SWITCH TO THE RUN POSITION AND OPERATE THE MAGNETIC TAPE FILL SWITCH. THE FIRST PROGRAM (CONTROL BLDS) WILL LOAD AND PRINT A DASH ON THE CONSOLE TYPEWRITER. THE CORRECT RESPONSE TO THE DASH IS TO TYPE 3E (CARRIAGE RETURN). THIS FORCES AN EDIT FUNCTION WHICH WILL READ TAPE UNIT ZERO AND CREATE AN BLDS SYSTEM TAPE ON TAPE UNIT ONE.
5. WAIT UNTIL THE OUTPUT TAPE REWINDS AND THEN REMOVE ITS FILE PROTECT RING. FORCE THE MAGNETIC TAPE UNIT ADDRESS ONE

TO ADDRESS ZERO. PUT THE OTHER MAGNETIC TAPE UNIT TO THE NOT READY CONDITION.

6. A DASH HAS BEEN PRINTED ON THE CONSOLE TYPEWRITER WHICH DEFINES BLDS CONTROL AS BEING STILL RESIDENT IN MEMORY.
7. THE CORRECT RESPONSE IS TO TYPE UL (CARRIAGE RETURN) TO FORCE A LISTING AND A CHECK READ OF ALL UNITS ON THE OUTPUT TAPE. THE TAPE WILL THEN REWIND. THE NEW BLDS MASTER IS NOW FINISHED. FOR ANY OTHER OPERATIONS CONCERNING BLDS SEE THE BLDS TECHNICAL MANUAL 901591.

MISCELLANEOUS PROGRAMS:

1. /BCARDV/ THIS ROUTINE WILL TRANSFER THE BINARY CONTENTS OF ANY PROGRAM IN THE DDT MEMORY OUT TO THE CARD PUNCH. A BOOTSTRAP LOADER IS INCLUDED ON THE FIRST CARD. THE CARD FORMAT IS STANDARD 940 BLDS. SEE THE BLDS TECH MANUAL 901591, 1.1.5.8, THE LOADER. THIS PROGRAM REQUESTS AN OUTPUT FILE WHICH IS ANSWERED BY RESPONDING WITH CARD. THIS ROUTINE IS USED TO CREATE A FILLABLE FORMAT WHICH CAN BE USED BY THE BLDS CONTROL EDITING FUNCTIONS. ONLY THE FIRST CARD NEED BE IN ORDER. THE REST OF THE DECK CAN BE SCRAMBLED WITHOUT DESTROYING ITS LOADING CAPABILITY.
2. /ZTAPV/ THIS IS A SPECIAL ASSEMBLER WHICH HAS AN EXPANDED LITERAL TABLE AND A REDUCED MACRO TABLE. ALL OTHER FUNCTIONS ARE THE SAME AS THE REGULAR TAP AT THE 3.0 LEVEL.
3. /TGENV/ THIS ROUTINE HAS A BUILT IN EXPLANATION WHICH WILL PRINT WHEN THE OPERATOR RESPONDS WITH A QUESTION MARK CHARACTER.

SDS

READER SURVEY

PUBLICATION NO. _____ TITLE: _____

IS MATERIAL PRESENTED PROPERLY:

- FULLY COVERED ? ☐
- CLEARLY EXPLAINED ? ☐
- WELL ILLUSTRATED ? ☐
- WELL ORGANIZED ? ☐
- OTHER _____ ☐

HOW DID YOU USE THIS PUBLICATION?

- FOR TROUBLESHOOTING AND REPAIR ☐
- FOR PROGRAMMING INFORMATION ☐
- FOR OPERATING INFORMATION ☐
- AS A STUDENT ☐
- AS AN INSTRUCTOR ☐
- OTHER _____ ☐

WHAT IS YOUR POSITION?

CUSTOMER PERSONNEL

CUSTOMER ORGANIZATION _____

_____

- TECHNICIAN ☐
- ANALYST ☐
- MANAGER ☐
- OPERATOR ☐
- PROGRAMMER ☐
- STUDENT ☐
- OTHER _____ ☐

SDS PERSONNEL

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- SALES REPRESENTATIVE ☐
- SYSTEMS ENGINEER ☐
- INSTRUCTOR ☐
- STUDENT ☐
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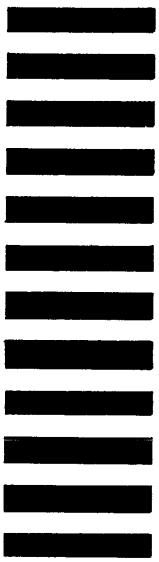

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