

Product Code: DEC-12-SE2D-DN1
Product Name: LAP6-DIAL-MS for the RK8F
Date Created: June 1973
Maintainer: Development

The software described in this document is furnished to the purchaser under a license for use on a single computer system and can be copied (with inclusion of DIGITAL's copyright notice) only for use in such system, except as may otherwise be provided in writing by DIGITAL.

The material in this document is for information purposes only and is subject to change without notice. DIGITAL assumes no responsibility for the use or reliability of software and equipment which is not supplied by it. DIGITAL assumes no responsibility for any errors which may appear in this document.

This manual is a supplement to the LAP6-DIAL
Programmer's Reference Manual, DEC-12-SE2D-D
and the DIAL-MS Supplement, DEC-12-SE2D-DN.

Copyright © 1973 by Digital Equipment Corporation

The following are trademarks of Digital Equipment Corporation,
Maynard, Massachusetts:

CDP	DIGITAL	KA10	PS/8
COMPUTER LAB	DNC	LAB-8	QUICKPOINT
COMTEX	EDGRIN	LAB-8/e	RAD-8
COMSYST	EDUSYSTEM	LAB-K	RSTS
DDT	FLIP CHIP	OMNIBUS	RSX
DEC	FOCAL	OS/8	RTM
DECCOMM	GLC-8		SABR
DECTAPE	IDAC	PDP	TYPESET 8
DIBOL	IDACS	PHA	UNIBUS
	INDAC		

CONTENTS

1.0	NEW FEATURE	1
2.0	SYSTEM IMPROVEMENTS	1
3.0	SUGGESTED MODE OF OPERATION	1
3.1	Initialization of a Formatted Disk	1
3.2	Bootstrapping DIAL from the Disk	2

1.0 NEW FEATURE

DIAL-MS has been modified to provide support for four RK05 disks. This feature makes available to the PDP-12 user more low cost mass random access storage than that previously available from Digital Equipment Corporation.

2.0 SYSTEM IMPROVEMENTS

From 1 to 4 RK05 disks may be accessed by DIAL-MS. The unit numbers for addressing RK8F devices for DIAL-MS commands are:

<u>Device</u>	<u>Unit Number</u>	<u>Disk Unit</u>
1 RK05 disk	10 - 16	0 - 6
2 RK05 disks	20 - 26	7 - 15 ₈
3 RK05 disks	30 - 36	16 - 24 ₈
4 RK05 disks	40 - 46	25 - 33 ₈

The logical unit size has been increased from 1000₈ blocks to 1600₈ blocks. This was necessary to provide the user access to all of the disks. The logical unit size is also compatible with LINC tapes marked for 1600₈ blocks. PIP has been modified to treat logical units as 1600₈ block devices. DIAL-MS itself, has not been modified to operate on files which reside partially or entirely beyond block 777₈. This means that the DIAL commands AP, SP, AB, SB, LO, AS, LI, QL, and PS will not operate correctly on a file whose last block lies beyond block 777₈. Use PIP to move files in and out of the area beyond block 777₈.

3.0 SUGGESTED MODE OF OPERATION

3.1 Initialization of a Formatted Disk

The following short procedure is used to initialize a formatted disk:

1. Insert the cartridge into the disk drive and load it.
(Set the RUN/LOAD switch to RUN.)

2. Mount the RK8F DIAL-MS tape on unit 0, write enabled.
3. Set the left switches (LSW), right switches (RWS), and the mode switch as follows:
 - LSW = 0701
 - RSW = 7310
 - MODE = LMODE
4. When the disk is ready, indicated by the ready light on the disk drive, press I/O Preset, DO, and START 20.
5. Load PIP from tape unit 0 and copy unit L0 onto the system unit R0. (The PIP used must be that which is supplied with the RK8F system.)
6. Return to DIAL-MS, display the index on unit 10, and delete any files which are not required on the disk, such as the PIP sources and the BOOTSTRAP source. This step frees storage space for commonly used programs.
7. Load PIP from unit 10 and copy the most commonly used system programs such as MARK12, CREF, FOCAL-12, TED, etc., from other DIAL-MS tapes onto unit 10.
8. If a backup of this system now residing on logical unit 10 is desired, copy it onto a LINC tape marked for 16000 blocks. To restore this tape onto another cartridge, it is only necessary to mount this tape on unit 0 and perform steps 1 through 5.

3.2 Bootstrapping DIAL From the Disk

Assuming that the disk has been initialized as in section 3.1 and that the bootstrap binary is stored in block 0 on the disk, the DIAL-MS system may be restarted using the following procedure:

1. Set Switches
 - LEFT Sw. --- LSW = 0020
 - RIGHT Sw. --- RSW = 6743
 - MODE = PMODE (8 n.d.c)
2. Press STOP, FILL, FILL STEP
3. Set RSW = 5021
4. Press FILL STEP, I/O PRESET, and START 20