



RT-11/85 MUBASIC V1
SYSTEM RELEASE NOTES

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REV B

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***** RT-11/85 MUBASIC V1 *****
***** SYSTEM RELEASE NOTES ***** Rev B
***** Pub no. 60-0041-001

The following documents and disks are contained in the Terak version of the DEC MUPASIC system software. If any items are missing, contact the Terak Software Service Group.

DOCUMENTS:

1. RT-11/85 MUBASIC V1 RELEASE NOTES, (this document)
2. BASIC-11 LANGUAGE REFERENCE MANUAL, DEC-11-LIBBA-B-D
3. MUBASIC / RT-11 SYSTEM INSTALLATION GUIDE, DEC-11-LIBMA-A-D
4. MUBASIC / RT-11 USER'S MANUAL, DEC-11-LIBRA-A-D
5. MUBASIC GRAPHICS EXTENSIONS V1 RELEASE NOTES, Terak # 60-0040-001
6. STRING ARITHMETIC (SMATH) SOFTWARE SPECIFICATION, Terak # 60-0018-001
7. 2 each 8510/a SYSTEM REFERENCE CARD, Terak # 60-0022-001

DISKS:

1. MUBAS SYSTEM DISK {Object files to build non-extended MUPAS}
2. MUBAS SYSTEM EXTENSIONS DISK {GRAPHICS and SMATH object files}
3. MUBAS DEMONSTRATION DISK {Ready to run, with demonstrations}

Upon receiving these disks, the manager of the software installation site should immediately:

- 1) scan each disk for damaged data,
- 2) verify the directory contents of each disk, and
- 3) make a backup copy of each disk.

These procedures are documented in the RT-11 System User's Guide, and are summarized, for convenience, below. Note that these procedures apply for RT-11 V2C and systems with at least two disk drives. If V3b or later is in use, consult the User's Guide. If only a single disk drive system is available, use the following procedures as an outline, while following correct procedures for use of the single disk drive handler (see System Generation Manual).

NOTE: In the following procedures, character sequences to be typed or observed are enclosed in single quotes. The expression <Control-X>, where X is a letter, indicates that the control key is to be depressed, then the indicated letter key is to be typed. The expression <XXX> indicates that the XXX key is to be typed; for example, the expression <return> indicates that the return key is to be typed.

INSPECTION OF DISKS FOR DAMAGED DATA

The demonstration disk (61-0002-003) may be booted by pressing the power switch upward, and then releasing, and then mounting the disk into disk drive QX0. Type 'R PIP <return>'. The response '*' will be displayed. To scan the demonstration disk for damaged data, type 'QX0:/K <return>'. To scan for damaged data on the other disks in the software kit, mount the selected disk into disk drive QX1 and type 'QX1:/K <return>'. In either case, after about a half minute, the response '*' should be displayed. If the scanning does not complete, or any message such as 'BLOCK XX IS BAD' is displayed, data on the disk may have been damaged. Contact the Terak Software Service Group.

INSPECTION OF DIRECTORY CONTENTS OF DISKS

The demonstration disk (61-0002-003) may be booted by pressing the power switch upward, then releasing it, and then mounting the disk into disk drive QX0. Type 'R PIP <return>'. The response '*' will be displayed. To display the directory of the demonstration disk, type 'QX0:/E <return>'. To display the directory of the other disks in the software kit, mount the selected disk into disk drive QX1 and type 'QX1:/K <return>'. In either case, the disk directory will be displayed on the screen. To hold the scrolling of the display, type <Control-S>; to release scrolling, type <Control-Q>. The directory of each disk is provided later in this document, and etc should be compared with the directory displayed. If any differences are found, contact the Terak Software Service Group.

PROCEDURE TO COPY (BACKUP) AN ENTIRE DISK

The demonstration disk (61-0002-003) may be booted by pressing the power switch upward, then releasing it, and then mounting the disk into disk drive QX0. Type 'R PIP <return>'. The response '*' will be displayed. Mount a blank disk into drive QX1. To copy a disk other than the demonstration disk, remove the demonstration disk from drive QX0, and mount the source disk into drive QX0. To copy the demonstration disk, leave it in drive QX0. Now type 'QX1:Z=QX0:/S <return>'. The copying onto the target disk will proceed, and complete in about a half minute.

If a disk other than the demonstration disk was copied by the above procedure, remove the source disk from drive QX0, and remount the demonstration disk into drive QX0.

If the demonstration disk was copied by the above procedure, do the following. Type <ETX>. The response 'C' and '.' will be displayed. Type 'R TKBOOT <return>'. The response 'ENTER DISK UNIT TO RECEIVE BOOTSTRAP:' will be displayed. Inject a bootstrap into the copy disk by typing '1 <return>'. The response '.' will be displayed. Type 'R PIP <return>'. The response '*' will be displayed.

In either case, next scan the target disk for valid data by typing 'QX1:/K <return>'. The response '*' should be displayed. If the scanning does not complete, or any message such as 'BLOCK XX IS BAD' is displayed, data on the target disk is not valid, and you should repeat the above procedure. If target disk data is still not valid, use a different target disk, and repeat the above procedure. If data is still not valid, contact the Terak Software Service Group.

Label the target disk. When all disks in the software kit have been copied, remove the original disks to a safe place.

DEMONSTRATING THE MUBASIC SYSTEM

Following this, the 'MUBASIC Demonstration' disk may be run to exercise the example programs. For users just beginning with Basic, a review of the Basic Language Reference Manual is suggested. For more advanced programmers, the User's Manual should be studied for a review of system and I/O extensions. For graphics programmers, studying the Graphics Extensions Release Notes is advised. For SMATH users (typically business programming), see the SMATH SPEC.

To demonstrate MUBASIC and its extensions, bootstrap the copy of the Demonstration Disk (61-0002-003), by pressing the power switch upward, and then releasing, and then mounting the disk into disk drive QX0. Enter the Date and Time, e.g. 'DATE 12-JUL-79 <return>' and 'TIME 21:25 <return>', and then type 'R MUBAS <return>'. The response 'Configuration File -- Old, New, or None' will be displayed. Type '0 <return>'. The response 'File Name --' will be displayed. Type '1USER <return>'. After a moment, the response 'READY' will be displayed.

over in CATLOG
recharge 50 PRINT \OPEN "0X" ... etc
to < 50 PRINT \OPEN "DK" ... etc

You are now in MUBASIC. As a first step, to list all Basic programs in the disk directory, type 'RUN CATLOG<return>'. The response 'QX UNIT NUMBER:' will be displayed. Type '0 <return>'. The response 'USER ID' will be displayed. Type 'AS <return>'.

To run any of the example programs, type 'RUN XXXXXX <return>', substituting the program title, without the '.BAS' extension, for XXXXXX. To stop a program, type <Control-C>, or <ETX>. After stopping a program, you may type <Control-L>, or <down-arrow> to clear the screen, and reset the panning rate. To list a program, type 'LIST <return>'. To exit MUBASIC, type 'BYE <return>'.

SELECTING OR BUILDING DIFFERENT VARIATIONS OF MUBASIC

Multiuser BASIC can be built in many different variations depending on the need of the user. Generally, one variation is selected based upon a tradeoff of memory space, functionality, and response speed. For example, the standard version of BASIC with TERAK 8510/a graphics support uses approximately 3.2K more memory than the same version without graphics. The implication to the user is that less memory space is available for programs and data.

The MUBASIC Graphics extensions provide the user with control of the Terak 8510/a graphics display. A subset of the ACM SIGGRAPH standard is provided. The MUBASIC Smath extensions provide the user with four function arithmetic, operating on numbers represented in strings, with 16 digit precision. Smath is vital to accounting use.

MUBASIC is linked from the object files contained in either disk 1 or 2 of the software kit. Linking can be done by manually entering a command to LINK, or by running BATCH to convert a control file to such commands. The major options available are:

1. FOREGROUND or BACKGROUND operation.
2. OVERLAID or NON-OVERLAID structure.
3. Math using the hardware FIS instructions, or STD instructions.
4. Include or omit TRANSCENDENTAL FUNCTIONS (e.g. sin, cos, etc.).
5. Include or omit PRINT USING output formating support.
6. Include or omit STRING support.
7. Include or omit GRAPHICS extensions.
8. Include or omit SMATH extensions.
9. Include or omit user written assembly language subroutines.

This software kit provides a total of seven ready-to-run variations of MUBASIC, and eleven Batch Control Files which can direct RT-11 BATCH to create other variations. The five variations on the demonstration disk (61-0002-003) include FIS math (standard option on the 8510/a), PRINT USING, and STRING support and combinations of the extensions. Those variations with Smath used the SMATH3 module (no IBM sign). The two variations on the system disk (61-0002-001) use STD math, include PRINT USING, and STRING support, and exclude any extensions. The following table summarizes all the ready-to-run MUBASIC files provided, and all the Batch Control Files provided. Other variations may be built by either following instructions in the MUBASIC System Installation Guide, or as directed below.

FILE TITLE	DISK NO.	BG/ FG	OVR- LAID	MATH TYPE	TRNS FNCS	PRNT USNG	STRNG SPRT	GRAPH EXT	SMATH EXT	BATCH FILE
MUBAS.SAV	-001	BG	NO	STD	YES	YES	YES	NO	NO	BNTPN.CTL
MUPAS.REL	-001	FG	YES	STD	YES	YES	YES	NO	NO	FOTPN.CTL
MUBAS.SAV	-003	BG	NO	FIS	YES	YES	YES	YES	YES	BNTPGS.CTL
MUBAS0.SAV	-003	BG	YES	FIS	YES	YES	YES	YES	YES	BOTPGS.CTL
MUBAS1.SAV	-003	BG	NO	FIS	YES	NO	YES	YES	NO	BNTNGN.CTL
MUBAS2.SAV	-003	BG	NO	FIS	NO	YES	YES	NO	YES	BNNPNS.CTL
MUBAS3.SAV	-003	BG	NO	FIS	YES	YES	YES	NO	NO	BNTPNN.CTL
*	-003	BG	YES	FIS	YES	YES	YES	NO	NO	BOTPNN.CTL
*	-003	BG	YES	FIS	YES	NO	YES	YES	NO	BOTNGN.CTL
*	-003	BG	YES	FIS	YES	YES	YES	NO	YES	BOTPNS.CTL
*	-003	BG	YES	FIS	NO	NO	NO	NO	NO	BONNNN.CTL

The Batch Files identified in the above table contain instructions to RT-11 BATCH to generate the indicated variation of MUBASIC. Where the file titles are tagged by '*', the ready-to-run MUBAS file is not provided in the software kit, but the batch file is provided. If a variation different than one of these is required, refer to the MUBAS System Installation Guide. The Batch Control files provided may be edited using RT-11 EDIT to generate custom variations.

To create new versions using the Batch Control files, an RT-11 disk must be bootstrapped on drive QX0, and have copies of LINK.SAV and BATCH.SAV, as well as the BA.SYS handler, and a copy of the Control file. Also, certain object files must be on QX0. The requirements of each Control file are documented within each file, and printed onto the console screen whenever the file is run under Batch. After arranging the files as directed, type the following assignments and loads to the Keyboard Monitor ('.' prompt), run Batch (response is '*' prompt), and enter the Control file title, as follows:

ASS TT LST <return>

(substitute LP for TT, if printer is available and hard copy is desired)

ASS TT LOG <return>

(add ',LP' if printing per above)

LOA TT,BA <return>

(response is '*' prompt)

R BATCH <return>

(several minutes of activity follow)

XXXXXX.CTL <return>

Where XXXXXX is the selected Control file for the MUBASIC variation desired. If any errors are indicated, check that all files were on the disk indicated in the Control file. Also check that sufficient room was available on the disk in drive QX0 to receive the MUPAS file (typically, 60 to 80 blocks is required).

MUBASIC CUSTOMIZATION

The following patches provide useful features within the current release of MURASIC. To alter a ready-to-run (or user generated) MUBASIC file, a copy of RT-11 PATCH is required, and the link map of the MUBASIC, to obtain the values required.

The following patch will allow input of lower case characters from the keyboard. Note that while MUBASIC will accept only upper case programs, this will allow lower case text strings to be entered.

```

type ---          R PATCH <return>
response ---     FILE NAME
type ---          MUBAS/0 <return>      (substitute for MUBAS, if req'd)
response ---     ?NOT IN PROGR BOUNDS?
*
type ---          400;B
response ---     *
type ---          MUBS2;0R      (substitute the numeric value of MUBS2
                                obtained from link map for this MUBAS)
response ---     *
type ---          0,1416/
response ---     40          (cursor left at end of response)
type ---          0 <return>
response ---     *
type ---          E <return>

```

The following patch will allow the <DELETE> key to erase characters, rather than echo the standard '_'. This makes input correction simpler. Note that there is no check on deleting an entire line, with the effect that the cursor may wrap-around to the right side of the display if the Delete key is typed too many times for a line. Also, for this patch to function correctly, the RT-11 system must be using the TK emulator (injected by TKBOOT).

```

type ---          R PATCH <return>
response ---     FILE NAME
type ---          MUBAS/0 <return>      (substitute for MUBAS, if req'd)
response ---     ?NOT IN PROGR BOUNDS?
*
type ---          400;B
response ---     *
type ---          MUBS2;0R      (substitute the numeric value of MUBS2
                                obtained from link map for this MUBAS)
response ---     *
type ---          0,2676/
response ---     137         (cursor left at end of response)
type ---          10 <return>
response ---     *
type ---          E <return>

```

RESTRICTIONS

Certain restrictions must be observed in the use of this release (V1) of MUBASIC. Some are listed in the System Installation Guide. Others which must be observed are:

The RT-11/85 single disk drive handler may not be used to prompt swapping of disks while running MUBASIC. If a system is built with the single disk drive handler, and an MUBASIC program references a device other than QX0, the system will hang.

If, during a CHAIN command, the file being chained-to is not found, the program name will be changed to the Chain file name, and the old program name will be lost. If such a chain failure occurs, the programmer should rename the current program before saving it.

The contents of the MUBASIC Installation Guide do not address this specific software kit - certain sections do not apply.

Specifically, all patches indicated in the guide have been applied. Also, substitute QX for DX wherever it appears in the Guide directions.

DISK DIRECTORIES

MUBAS SYSTEM DISK

CT	.NEW	5	01-Dec-75
EYEH	.B00	1	01-Dec-75
HELLO	.B00	3	01-Dec-75
INITH	.B00	1	30-Oct-76
PASWRD	.B00	1	01-Dec-75
IUSER	.D00	2	18-Oct-76
MUBC	.OBJ	6	01-Dec-75
MUFENS	.OPJ	18	01-Dec-75
MUBH	.OBJ	11	01-Dec-75
MUBI	.OBJ	1	18-Oct-76
MUBM1	.EAE	5	01-Dec-75
MUBM1	.FIS	3	01-Dec-75
MUEM2	.OBJ	6	01-Dec-75
MUBM2	.EIS	6	01-Dec-75
MUBM2	.FPU	3	01-Dec-75
MUBNM2	.OBJ	1	01-Dec-75
MUBO	.OBJ	21	18-Feb-77
MUBPX	.OBJ	8	01-Dec-75
MUBR	.OBJ	11	01-Dec-75
MUBS1	.OBJ	16	05-Sep-76
MUBS2E	.OBJ	12	17-Mar-79
MUEVSJ	.OBJ	1	17-Mar-79
MUBX	.OBJ	21	17-Mar-79
MUBXT	.OBJ	1	17-Mar-79
MUBI	.MAC	3	17-Mar-79
LIST	.BAS	3	17-Mar-79
MUBAS	.SAV	62	01-Jul-79
< UNUSED >		34	

54 Files, 446 Blocks

34 Free blocks

MUBAS SYSTEM EXTENSIONS DISK

SMATH	.OBJ	5	01-Sep-77
SMATH1	.OBJ	3	01-Sep-77
SMATH3	.OBJ	5	01-Sep-77
SMATH5	.OBJ	3	01-Sep-77
SMATE	.MAC	57	01-Sep-77
CORE	.OBJ	9	16-Apr-79
LINE	.MAC	13	17-Apr-79
CHAR	.MAC	12	17-Apr-79
MUBIG	.MAC	2	17-Apr-79
MUEIS	.OBJ	1	17-Apr-79
MUBIGS	.OBJ	2	17-Apr-79
FOTPN	.CTL	1	01-Jul-79
BOTPGS	.CTL	2	01-Jul-79
BNNPNS	.CTL	2	01-Jul-79
BOTPNN	.CTL	1	01-Jul-79
BOTPNS	.CTL	2	01-Jul-79
SMATH	.BAS	2	01-Sep-77

33 Files, 225 Blocks

255 Free blocks

Part No. 61-0002-001 01-Jul-79

BYE	.B00	1	01-Dec-75
EXIT	.B00	1	01-Dec-75
INIT	.B00	1	18-Oct-76
NOTICE	.B00	1	01-Dec-75
ZAP	.B00	1	01-Dec-75
MUBA	.OBJ	1	01-Dec-75
MUBE	.OBJ	19	01-Dec-75
MUBET	.OBJ	1	01-Dec-75
MUBHNS	.OBJ	8	01-Dec-75
MUBM1	.OBJ	5	14-Oct-76
MUBM1	.FIS	5	01-Dec-75
MUBM1	.FPU	3	01-Dec-75
MUBM2	.EAE	6	01-Dec-75
MUBM2	.FIS	6	01-Dec-75
MUBNC	.OBJ	6	01-Dec-75
MUBNP	.OBJ	7	01-Dec-75
MUBPR	.OBJ	7	01-Dec-75
MUBPXN	.OBJ	8	01-Dec-75
MUBRNS	.OBJ	10	01-Dec-75
MUBS2	.OBJ	11	17-Mar-79
MUBT	.OBJ	3	17-Mar-79
MUBVFB	.OBJ	1	17-Mar-79
MUBXNS	.OBJ	18	17-Mar-79
MUBZ	.OBJ	1	17-Mar-79
GETARG	.MAC	12	17-Mar-79
CATLOG	.BAS	3	17-Mar-79
MUPAS	.REL	68	01-Jul-79

Part No. 61-0002-002 01-Jul-79

SMATH0	.OBJ	3	01-Sep-77
SMATH2	.OBJ	5	01-Sep-77
SMATH4	.OBJ	3	01-Sep-77
SMATH6	.OBJ	4	01-Sep-77
LINE	.OBJ	2	16-Apr-79
CHAR	.OBJ	2	16-Apr-79
CORE	.MAC	69	17-Apr-79
MUBIS	.MAC	1	17-Apr-79
MUBIGS	.MAC	3	17-Apr-79
MUBIG	.OBJ	2	17-Apr-79
BNTPN	.CTL	1	01-Jul-79
BNTPGS	.CTL	2	01-Jul-79
BNTNGN	.CTL	2	01-Jul-79
BNTPNN	.CTL	1	01-Jul-79
BOTNGN	.CTL	2	01-Jul-79
BONNNN	.CTL	1	01-Jul-79
< UNUSED >		255	

MUBAS DEMOSTRATION DISK

Part No. 61-0002-003 01-Jul-79

MONITR.SYS	46	17-Apr-79	QX	.SYS	3	17-Apr-79
TT .SYS	2	17-Apr-79	LP	.SYS	2	17-Apr-79
PIP .SAV	14	17-Apr-79	TKBOOT.SAV		6	17-Apr-79
CHRSET.SYS	4	17-Apr-79	INIT .B00		1	17-Apr-79
BYE .B00	1	17-Apr-79	1USER .D00		2	17-Apr-79
EX1 .BAS	2	17-Apr-79	CATLOG.BAS		3	17-Apr-79
LIST .BAS	3	17-Apr-79	EX .DAT		2	17-Apr-79
EX .BAS	3	17-Apr-79	EXAM .BAS		4	17-Apr-79
EXAM1 .BAS	2	17-Apr-79	EXAM2 .BAS		1	17-Apr-79
EXAM3 .BAS	4	17-Apr-79	EXAM4 .BAS		2	17-Apr-79
EXAM5 .BAS	1	17-Apr-79	EXAM6 .BAS		1	17-Apr-79
EXAM7 .BAS	2	17-Apr-79	EXAM8 .BAS		4	17-Apr-79
EXAMP .BAS	3	17-Apr-79	EXAMP0.BAS		2	17-Apr-79
EXAMP1.BAS	3	17-Apr-79	EXAMP2.BAS		5	17-Apr-79
EXAMP3.BAS	1	17-Apr-79	EXAMP4.BAS		1	17-Apr-79
EXAMP5.BAS	2	17-Apr-79	EXAMP6.BAS		2	17-Apr-79
EXAMP7.BAS	2	17-Apr-79	EXAMP8.BAS		2	17-Apr-79
EXAMP9.BAS	1	17-Apr-79	SMATH .BAS		2	17-Apr-79
MUPAS .SAV	70	01-Jul-79	MUBAS0.SAV		71	01-Jul-79
MUBAS1.SAV	65	01-Jul-79	MUBAS2.SAV		61	01-Jul-79
MUBAS3.SAV	60	01-Jul-79	< UNUSFD >		12	

41 Files, 468 Blocks

12 Free blocks

LINK MAPS FOR ALL READY-TO-RUN VERSIONS (1-JULY-79 RELEASE)

Following are the link maps generated by each of the Control Files supplied. These are useful to verify the link of MUFAS accomplished at the software installation site, and to supply values for patches for customization or modification.

BUTPH.C72

PT-11 JIN	V24-04A	LOAD MAP	01-JUL-79	MUET	#16624	002570	WINT	016620	MRKTIM	017164	CMRKT	017200
MUEAS .SIV				EASICI	017410	000006	SETIM	017276	MRKINI	017356		
. ABS.	0220202	001136	TKF1	202021	TKF3	202021	TKF3	021002	FTABI	017410	FKGI	017414
. KF4	0022021	TKF5	2022021	TKF5	0022021	ANZIND	002014	CALLIM	017416	CALRET	017416	
. KF7	2220201	TKF6	2220201	TKF6	0220201	TITR2	0220120	NUMOUT	017422	NUMSGN	017754	
KPI	0022062	KB11	2022062	KB11	0022062	KE14	000150	NUMSTT	020070	SAVCHA	020312	
KB12	000122	KB12	200122	KB12	000122	RAR	200252					
*BOL	0002202	TPPRI0	0002202	TPPRI0	0002202	DYTOT	0002271					
-COMMA	3002256	LPA1	2002272	LPA1	0002272	TK16	000330					
-SQUOT	0022272	TK15	0022322	TK15	0022354	TK55	176520					
KB17	0002343	XB15	0002350	XB15	0002350	TISE	176570					
TKS6	176530	TKS7	176562	TKS7	176562	KWLS	177546					
TKS2	177520	TKS3	177530	TKS3	177530	TPS	177564					
TKS4	177570	TKS1	177562	TKS1	177562							
BASLOW	001136	USRARS	001216	USRARS	001216	30	001220					
SCRATC	001224	CURSR	001244	CURSR	001244	LSTUSR	001246					
IGNORE	001260	CLEAR	001260	CLEAR	001260	READY	001266					
EXECUT	001356	EXECUT	001372	EXECUT	001372	ERAGO	001532					
ALLOC	001540	BOMB0	002012	BOMB0	002012	BOMB0	002044					
SOMEDD	002060	CEKCHR	002156	CEKCHR	002156	DIVTEN	000220					
DNPACK	002256	TBL5A	202442	TABLE5	002444	TABLE5	002472					
TBL5RN	002452	TBL5M	002456	TBL5W	002456	CHKFILE	002336					
TPLESEN	0022526	ERRSYN	0022530	ERRSYN	0022640	FPPSAV	002740					
FILINEN	0022564	FNDSFL	0022640	FNDSFL	0022640	FREEGE	002766					
FNDETX	0022674	PPRES	002712	PPRES	002712	GTFTAB	003020					
ELINGE	003036	LINGT	003042	LINGT	003042	LITEVA	003172					
MPTIEN	003326	MSGERR	003356	MSGERR	003356	MSG	003364					
MSGODE	003424	NORM	003454	NORM	003454	ODEVTT	003646					
INTEVA	003666	REVAL	003672	REVAL	003672	EVALR	003716					
SAREG	003730	SKIPEO	003774	SKIPEO	003774	ERRTRN	004250					
VAL	004066	ERRNOS	004472	ERRNOS	004472	ERRDNA	004556					
DEFLET	004502	RE-NAM	004574	RE-NAM	004574	EE-LES	024630					
ERRNFI	004574	EE-LES	004710	CLOSCH	004710	CLOSE-	004756					
OPEN.	004710	CLOSCH	006324	CLOSCH	006324	CLOSE-	006542					
CLOSE7	0065446	CLOSE7B	006562	CLOSE7B	006562	CLOSE-	006600					
DNAKUS	006650	NATUSR	006656	NATUSR	006656	NTFS	007504					
CUTDJ	007526	CUTADL	007530	CUTADL	007530	CHN	007546					
ERR410	012164	SYSEX1	210206	SYSEX1	210206	DIMJUL	010227					
SYRSET	010436	FURGL	010514	FURGL	010514	CLOSAL	010516					
RNB	01060	WBL	010716	WBL	010726	WB	010726					
RP	010730	CONS4V	011034	GSFFS	011122							
GALFB	011152	LINK	011260	DEQSCH	011314							
MERGE	011440	GS3	011752									
GSC	012114	CYUN	012210	MLUTPC	012210							
CFKBC	012338	BLOCK	012346	.	WAIT	012626						
VEELK1	0126664	FGNDG	013124	DNBF0	013120							
IORQ	013122	CUT	013124	CUTUG	013126							
LSCHAN	013130	LUCIAN	013132	MBPNNU	013134							
MNCFNU	013136	CSWT	013140	LOCKTG	013144							
SYSLDN	013146	HEAPPH	013454	HELPST	014541							
CEKISE	014622	CHKOSSE	014630	ERRID	014736							
ERRICN	014770	FRACNO	014776	KBLNT	015010							
TPINT	015662	PUNGTT	016536	TTCRT	016536							
KVSVA	015602	DAT	016612	SYASCN	016614							
SYASUN	016616											

TRANSFER ADDRESS = 001220
HIGH LIMIT = 060570

Foto Pn; cTc

BUT PG5.CTL

T-11 LINK	V04-04A	LOAD MAP	21-JUL-79	SECTION	ADDR	SIZE	ENTRY	ADDR	ENTRY	ADDR	ENTRY	ADDR	ENTRY	ADDR
WUBAS .SAV	0000000	001:35	TYT1	0002021	TKF5	0000001	TKFC	0000021	TKFS	0002021	TKFA	0000014	RNDFD	024452
	A BS.		TYT4	0002221	TKFS	0002021	TKFA	0000014	RNDFD	0002021	TKFB	0000014	CUTUC	024462
			TYT7	0002021	TKFS	0002021	TKFB	0000014	RNDFD	0002021	TKFC	0000014	MBEFNU	024464
			XE1	0002262	XBL1	0000062	XTPR2	0000122	XTPR2	0000122	XBL1	0000154	LOCFG	024472
			KEL2	000120	KEL2	000120	KBL4	000150	KBL4	000150	KEL2	000152	BEAST	024522
			EOL	0002202	TPPR10	0002249	RPA7	0000232	RPA7	0000232	TPPR10	0002249	RCTRL	025020
			COMMA	0002256	LIPAR	000270	DQUOT	000271	DQUOT	000271	LIPAR	000270	RANDOM	025032
			SQUOTE	0002272	KB15	000320	TKS5	0003350	TKS5	0003350	KB15	0003350	ERRID	025074
			KB17	000340	KB18	000340	TKS7	176562	TKS7	176562	KB18	176562	ERRICN	025074
			TKS6	176532	TKS7	176562	TKS2	177520	TKS3	177530	TKS7	177530	ERRNO	025074
			TKS2	177520	TKS3	177530	TKS1	177560	TKS1	177560	TKS2	177560	ERRNO	025074
			TKS4	177570	ALINE	001:136	BITTER	001614	NZONE	001656	LINEST	001732	TPS	000120
			LINE	000516	SCREW	001654	SPDX	001736	SPDX	001736	SPDX	001740	TPS	025074
			SCRE	000564	CHARWI	001734	CHQLTI	001750	ADSTS	002525	ADSTS	002525	TPS	025074
			SPDY	001744	SPDY	001744	ASLST1	002556	ASCLL	002556	ASLST1	002556	TPS	025074
			ADRS	002162	ANWFR	002636	AWNDR	002750	AVPRI	002750	ANWFR	002750	TPS	025074
			ANWFR	002636	AMOVA	003176	ASCSPF	003224	AMOIR	003242	AMOVA	003242	TPS	025074
			AMOVA	003176	ACPOS	003302	ATEXT	003400	APLNA	003762	ACPOS	003762	TPS	025074
			ACPOS	003302	APLNR	003770	ASC52	005136	AMRIA	005004	APLNR	005224	TPS	025074
			APLNR	003770	AMRK1	005214	ALINA	005224	ALINR	005232	AMRK1	005232	TPS	025074
			AMRK1	005214	DRUSER	006076	ACLAR	007126	ATXTO	007556	ACLAR	007556	TPS	025074
			DRUSER	006076	MULSS	007556	DIV\$%	007556	ADR\$%	007556	MULSS	007556	TPS	025074
			MULSS	007556	ADRS	007556	ADR\$%	007556	ADR\$%	007556	ADRS	007556	TPS	025074
			ADRS	007556	ADSS	007572	SUB\$%	007600	ADSS	007600	ADSS	007600	TPS	025074
			ADSS	007572	FTABI	012426	EKG1	012472	FTABI	012472	EKG1	012472	TPS	025074
			FTABI	012426	BASLW	012474	USRARE	012554	J0	012556	BASLW	012556	TPS	025074
			BASLW	012474	USRPL	012552	CURUSR	012602	LTUSR	012604	USRPL	012604	TPS	025074
			USRPL	012552	SCRATC	012606	CLEAR	012616	READY	012624	SCRATC	012624	TPS	025074
			SCRATC	012606	IGNORE	012724	EXECUT	012730	ERGO	013072	IGNORE	013072	TPS	025074
			IGNORE	012724	ALLOC	013076	BOME	013350	EROGO	013402	ALLOC	013402	TPS	025074
			ALLOC	013076	BOMBD	013416	CHKCHR	013514	DIVTN	013556	BOMBD	013556	TPS	025074
			BOMBD	013416	DNPACK	013614	TBL5M	014002	TAPES	014002	DNPACK	014002	TPS	025074
			DNPACK	013614	TBL5RN	014010	TBL5M	014014	TR5BM	014030	TBL5RN	014030	TPS	025074
			TBL5RN	014010	TBLSEN	014024	ERRSYN	014066	FLINE	014074	TBLSEN	014074	TPS	025074
			TBLSEN	014024	FLINEN	014122	FNDSTL	014176	CFEFL	014230	FLINEN	014230	TPS	025074
			FLINEN	014122	FNDSTL	014232	FPPRS	014250	FPPSAV	014276	FNDSTL	014276	TPS	025074
			FPPRS	014232	FREGE	014324	GTFTR	014556	XLINGE	014366	FREGE	014366	TPS	025074
			GTFTR	014324	FLINGE	014374	LINGET	014400	LITVA	014530	FLINGE	014530	TPS	025074
			FLINGE	014374	MPYTN	014664	MSGERR	014744	MSG	014722	MPYTN	014722	TPS	025074
			MSGERR	014664	MSCODE	014762	NORM	015012	ODETT	015204	MSCODE	015204	TPS	025074
			MSCODE	014762	INTEVA	015224	REVAL	015250	EVAIR	015254	INTEVA	015254	TPS	025074
			INTEVA	015224	SAVREG	015266	SKIPJO	015332	ERTRN	015416	SAVREG	015416	TPS	025074
			SAVREG	015266	DELET	016036	RE.NAM	016036	ERRDNA	016112	DELET	016112	TPS	025074
			DELET	016036	ERRFN	016132	RE.LIS	016166	CLOSE.	016244	ERRFN	016244	TPS	025074
			ERRFN	016132	OPEN.	016246	CLOSCH	017662	CLOSCE	020100	OPEN.	020100	TPS	025074
			OPEN.	016246	CLOSE7	020104	NITUS3	020205	NITFS	021042	CLOSE7	021042	TPS	025074
			CLOSE7	020104	CUTADJ	021064	CUTADL	021266	CHN	021104	CUTADJ	021104	TPS	025074
			CUTADJ	021064	ERR410	021522	SYSEII	021536	DIMUL	021630	ERR410	021630	TPS	025074
			ERR410	021522	SFRSET	022174	PURGAL	022632	CLOSAL	022654	SFRSET	022654	TPS	025074
			SFRSET	022174	RNB	022216	WBL	022254	WB	022264	RNB	022264	TPS	025074
			RNB	022216	RB	022266	CONS A	022372	GSFPS	022460	RB	022460	TPS	025074
			RB	022266	GALF	022510	LINK	022516	DEQSCH	022652	GALF	022652	TPS	025074
			GALF	022510	MERGE	022776	GSB	023310	PCFP	023430	MERGE	023430	TPS	025074
			GSB	022776	GSC	023322	CYUN	023346	MLUTEC	023546	GSC	023546	TPS	025074
			GSC	023322	CKEKC	023666	BLOCK	023704	.HAI	024164	CKEKC	024164	TPS	025074

TRANSFER ADDRESS = 012556
HIGH LIMIT = 077072

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BoTPEGS.CTL

BNTNGN.CTL

BUNTING.N.CTL

SECTION	ADDR	SIZE	ENTRY	ADDR	ENTRY	ADDR
RT-11 LINK	V04-04A	LOAD MAP	TKE1	0002001	TKE2	0002001
MUBAS .SAV	01-JUL-75		TKE5	0002021	TKF5	0002001
			TKF6	0002001	RNDPND	00020014
			TKF7	0002001	TPR2	0002001
			KB11	0002026	KB11	0002002
			KB12	0001228	KB13	0002032
			.EOL	0002028	TPR10	0002240
			.COMMA	0002256	.LPAR	0002020
			.SQUOT	0002272	KB15	0003032
			KP17	0003408	KB15	0003030
			TKS6	176530	TKS7	176560
			TKS2	177520	TKS3	177530
			TKS5	177560	TKS1	177562
			TKS4	177570		
LINE	001126	000516	ALINE	001126	BITTER	001604
CORE	001644	005064	SCREEN	001644	CHARHE	001726
			CHARWI	001724	CHARHE	001730
			SPDY	001734	CHQTY	001740
			ADRV5	002150	ASLST	002256
			ANWFR	002626	AWNWD	002740
			AMOVA	003166	ASCSP	003174
			ACPOS	003272	ATEXT	003370
			APLNR	003760	ASCZ	005126
			AMRKR	005204	ALINA	005214
			DRVER	006730	ACHAR	007116
			ATXTO	006730	BIGI	007726
			FTABI	007540	USRBLW	007730
			BSLOW	007730	USRBL	010216
			SCRATC	010422	CLEARR	010052
			IGNORE	012160	EXECUT	012164
			ALLOC	010332	EOMB	010636
			BOMEDD	010652	CHKCHR	012752
			DNPACK	011050	DIVTEN	011012
			TEIL5RN	011244	TABLES	011236
			TEIL5RN	011320	TBL5HM	011264
			FLINEN	011356	ERRSYN	011322
			FMDETX	011466	FNDSTL	011472
			FREEGE	011562	FPPSAV	011532
			ELLINGE	011630	GTFIAP	011612
			MPITEN	012122	LINGET	011634
			MESSDE	012216	LTIEVA	011764
			SAREG	012460	NORM	012156
			VAL	012522	REVAL	012440
			ERRNFB	012660	SKIPEO	012464
			OPEN.	013272	RE.LES	013264
			CLOSCT	013366	RE.LAM	013272
			DNCSTS	015442	ERRDNA	013346
			CUTADJ	013320	RE.LHSR	015450
			ERR410	016756	SYSTK1	016322
			SPPSET	017230	DIMUL	017064
			RNP	017452	PURGAL	01730
			RB	017522	WBL	017520
			CALFB	017744	CONSAV	017626
			MERGE	020232	LINK	020052
			GSC	020706	CSB	020544
			CFKBC	021222	CVLUN	021002
			WFBLK1	022456	BLOCK	021140
			IORQ1	022714	DNEFG	021712

SECTION	ADDR	SIZE	ENTRY	ADDR	ENTRY	ADDR
MAIN	0002000	001126	TKE1	0002001	TKE2	0002001
			TKE5	0002021	TKF5	0002001
			TKF6	0002001	RNDPND	00020014
			TKF7	0002001	TPR2	0002001
			KB11	0002026	KB11	0002002
			KB12	0001228	KB13	0002032
			.EOL	0002028	TPR10	0002240
			.COMMA	0002256	.LPAR	0002020
			.SQUOT	0002272	KB15	0003032
			KP17	0003408	KB15	0003030
			TKS6	176530	TKS7	176560
			TKS2	177520	TKS3	177530
			TKS5	177560	TKS1	177562
			TKS4	177570		
LINE	001126	000516	ALINE	001126	BITTER	001604
CORE	001644	005064	SCREEN	001644	CHARHE	001726
			CHARWI	001724	CHARHE	001730
			SPDY	001734	CHQTY	001740
			ADRV5	002150	ASLST	002256
			ANWFR	002626	AWNWD	002740
			AMOVA	003166	ASCSP	003174
			ACPOS	003272	ATEXT	003370
			APLNR	003760	ASCZ	005126
			AMRKR	005204	ALINA	005214
			DRVER	006730	ACHAR	007116
			ATXTO	006730	BIGI	007726
			FTABI	007540	USRBLW	007730
			BSLOW	007730	USRBL	010216
			SCRATC	010422	CLEARR	010052
			IGNORE	012160	EXECUT	012164
			ALLOC	010332	EOMB	010636
			BOMEDD	010652	CHKCHR	012752
			DNPACK	011050	DIVTEN	011012
			TEIL5RN	011244	TABLES	011236
			TEIL5RN	011320	TBL5HM	011264
			FLINEN	011356	ERRSYN	011322
			FMDETX	011466	FNDSTL	011472
			FREEGE	011562	FPPSAV	011532
			ELLINGE	011630	GTFIAP	011612
			MPITEN	012122	LINGET	011634
			MESSDE	012216	LTIEVA	011764
			SAREG	012460	NORM	012156
			VAL	012522	REVAL	012440
			ERRNFB	012660	SKIPEO	012464
			OPEN.	013272	RE.LES	013264
			CLOSCT	013366	RE.LAM	013272
			DNCSTS	015442	ERRDNA	013346
			CUTADJ	013320	RE.LHSR	015450
			ERR410	016756	SYSTK1	016322
			SPPSET	017230	DIMUL	017064
			RNP	017452	PURGAL	01730
			RB	017522	WBL	017520
			CALFB	017744	CONSAV	017626
			MERGE	020232	LINK	020052
			GSC	020706	CSB	020544
			CFKBC	021222	BLOCK	021140
			WFBLK1	022456	DNEFG	021712
			IORQ1	022714	CUT	021716

SECTION	ADDR	SIZE	ENTRY	ADDR	ENTRY	ADDR
MAIN	0002000	001126	TKE1	0002001	TKE2	0002001
			TKE5	0002021	TKF5	0002001
			TKF6	0002001	RNDPND	00020014
			TKF7	0002001	TPR2	0002001
			KB11	0002026	KB11	0002002
			KB12	0001228	KB13	0002032
			.EOL	0002028	TPR10	0002240
			.COMMA	0002256	.LPAR	0002020
			.SQUOT	0002272	KB15	0003032
			KP17	0003408	KB15	0003030
			TKS6	176530	TKS7	176560
			TKS2	177520	TKS3	177530
			TKS5	177560	TKS1	177562
			TKS4	177570		
LINE	001126	000516	ALINE	001126	BITTER	001604
CORE	001644	005064	SCREEN	001644	CHARHE	001726
			CHARWI	001724	CHARHE	001730
			SPDY	001734	CHQTY	001740
			ADRV5	002150	ASLST	002256
			ANWFR	002626	AWNWD	002740
			AMOVA	003166	ASCSP	003174
			ACPOS	003272	ATEXT	003370
			APLNR	003760	ASCZ	005126
			AMRKR	005204	ALINA	005214
			DRVER	006730	ACHAR	007116
			ATXTO	006730	BIGI	007726
			FTABI	007540	USRBLW	007730
			BSLOW	007730	USRBL	010216
			SCRATC	010422	CLEARR	010052
			IGNORE	012160	EXECUT	012164
			ALLOC	010332	EOMB	010636
			BOMEDD	010652	CHKCHR	012752
			DNPACK	011050	DIVTEN	011012
			TEIL5RN	011244	TABLES	011236
			TEIL5RN	011320	TBL5HM	011264
			FLINEN	011356	ERRSYN	011322
			FMDETX	011466	FNDSTL	011472
			FREEGE	011562	FPPSAV	011532
			ELLINGE	011630	GTFIAP	011612
			MPITEN	012122	LINGET	011634
			MESSDE	012216	LTIEVA	011764
			SAREG	012460	NORM	012156
			VAL	012522	REVAL	012440
			ERRNFB	012660	SKIPEO	012464
			OPEN.	013272	RE.LES	013264
			CLOSCT	013366	RE.LAM	013272
			DNCSTS	015442	ERRDNA	013346
			CUTADJ	013320	RE.LHSR	015450
			ERR410	016756	SYSTK1	016322
			SPPSET	017230	DIMUL	017064
			RNP	017452	PURGAL	01730
			RB	017522	WBL	017520
			CALFB	017744	CONSAV	017626
			MERGE	020232	LINK	020052
			GSC	020706	CSB	020544
			CFKBC	021222	BLOCK	021140
			WFBLK1	022456	DNEFG	021712
			IORQ1	022714	CUT	021716

TRANSFER ADDRESS = 010212

HIGH LIMIT = 064312

OVERLAY REGION 0002001

MUBO 046564 012462

OVERLAY REGION 0002002

EASICH 061246 002624

FNTAF 06472 012220

SEGMENT 0000003

ONCEOK 057602

SEGMENT 0000002

EASICH 061246 002624

FNTAF 06472 012220

OFQVLY 064704 012220

BRUNNPHS.CTL

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BUTPMM.CTL

MUBT	016620	000576	SWINT	016620	MARTIM	017164	CMRKT	017200
BASICL	017410	000006	SETMR	017276	MRKINI	017356		
BASICC	017416	200004	FTBAL	017410	EKG	017414		
BASPR	017422	001020	CALLM	017416	CALRET	017422	NUMSGN	017754
X-11 LINE	T04-D4A	LOAD MAP	NUNST	020870	SAVCHA	020310	SANCHI	020312
DATAUSERS.SAV	01-JUL-79							
SECTION ADDR	SIZE	ENTRY	ADDR	ENTRY	ADDR	ENTRY	ADDR	
AFS.	000000	001136	TKF1	000001	TKF2	000001	TKF3	
		TKF4	0022001	TKF5	000001	TKF6	000001	
		TKF7	000001	TKF8	002201	RNDIND	0000014	
		TKF9	000001	TKF10	000001	TKF11	0000014	
		KBL1	0000002	KBL2	0000002	TKPR2	0000012	
		KBL3	0000120	KBL4	0000120	KBL5	0000150	
		KBL6	0000200	KBL7	0000200	EPAR	0000250	
		KBL8	0000256	KBL9	0000272	DQUOT	0000271	
		KBL10	0000272	KBL11	0000320	KB16	0000330	
		KBL12	0000340	KBL13	0000350	TESS	0000350	
		KBL14	0000350	KBL15	0000350	TKSE	0000570	
		KBL16	0000532	KBL17	0000532	KVLS	0000546	
		KBL18	0000532	KBL19	0000532	TPS	0000566	
		KBL20	0000532	KBL21	0000532			
		KBL22	0000532	KBL23	0000532			
		KBL24	0000532	KBL25	0000532			
		KBL26	0000532	KBL27	0000532			
		KBL28	0000532	KBL29	0000532			
		KBL30	0000532	KBL31	0000532			
		KBL32	0000532	KBL33	0000532			
		KBL34	0000532	KBL35	0000532			
		KBL36	0000532	KBL37	0000532			
		KBL38	0000532	KBL39	0000532			
		KBL40	0000532	KBL41	0000532			
		KBL42	0000532	KBL43	0000532			
		KBL44	0000532	KBL45	0000532			
		KBL46	0000532	KBL47	0000532			
		KBL48	0000532	KBL49	0000532			
		KBL50	0000532	KBL51	0000532			
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		KBL54	0000532	KBL55	0000532			
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		KBL60	0000532	KBL61	0000532			
		KBL62	0000532	KBL63	0000532			
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		KBL116	0000532	KBL117	0000532			
		KBL118	0000532	KBL119	0000532			
		KBL120	0000532	KBL121	0000532			
		KBL122	0000532	KBL123	0000532			
		KBL124	0000532	KBL125	0000532			
		KBL126	0000532	KBL127	0000532			
		KBL128	0000532	KBL129	0000532			
		KBL130	0000532	KBL131	0000532			
		KBL132	0000532	KBL133	0000532			
		KBL134	0000532	KBL135	0000532			
		KBL136	0000532	KBL137	0000532			
		KBL138	0000532	KBL139	0000532			
		KBL140	0000532	KBL141	0000532			
		KBL142	0000532	KBL143	0000532			
		KBL144	0000532	KBL145	0000532			
		KBL146	0000532	KBL147	0000532			
		KBL148	0000532	KBL149	0000532			
		KBL150	0000532	KBL151	0000532			
		KBL152	0000532	KBL153	0000532			
		KBL154	0000532	KBL155	0000532			
		KBL156	0000532	KBL157	0000532			
		KBL158	0000532	KBL159	0000532			
		KBL160	0000532	KBL161	0000532			
		KBL162	0000532	KBL163	0000532			
		KBL164	0000532	KBL165	0000532			
		KBL166	0000532	KBL167	0000532			
		KBL168	0000532	KBL169	0000532			
		KBL170	0000532	KBL171	0000532			
		KBL172	0000532	KBL173	0000532			
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		KBL178	0000532	KBL179	0000532			
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		KBL192	0000532	KBL193	0000532			
		KBL194	0000532	KBL195	0000532			
		KBL196	0000532	KBL197	0000532			
		KBL198	0000532	KBL199	0000532			
		KBL200	0000532	KBL201	0000532			
		KBL202	0000532	KBL203	0000532			
		KBL204	0000532	KBL205	0000532			
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		KBL208	0000532	KBL209	0000532			
		KBL210	0000532	KBL211	0000532			
		KBL212	0000532	KBL213	0000532			
		KBL214	0000532	KBL215	0000532			
		KBL216	0000532	KBL217	0000532			
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