

VOLUME 1		VARIOUS CP/M UTILITY PROGRAMS	
NUMBER	SIZE	NAME	COMMENTS
1.1	8K	ASSIGN.ASM	IOBYTE ASIGN. USE
WITH VBIOS31			
1.2	2K	CASDSK.ASM	CASSETTE TO DISK
TRANSFER			
1.3	9K	COPY.ASM	COPY SYSTEM, DATA OR
WHOLE DISKETTE-( A TO B )			
1.4	8K	COPY.COM	AS ASM, USED TO COPY
THIS DISK			
1.5	9K	COPYX.ASM	AS COPY, USES
INTERNAL SCRATCH INSTEAD OF 40H			
1.6	4K	DIABLO.ASM	ROMABLE HYTYPE/QUME
DRIVER			
1.7	8K	DISASSM1.ASM	CHRISTENSEN
DISASSEMBLER AS PER FEB '77 DR DOBBS			
1.8	4K	DISASSM2.ASM	INTEL LIBRARY
DISASSEMBLER			
1.9	9K	DISKTEST.ASM	PROGRAM TO SEARCH
FOR DISK ERRORS			
1.10	2K	DSKCAS.ASM	DISKETTE TO CASSETTE
TRANSFER			
1.11	1K	ED3.ASM	PATCHES FOR 'R' BUG
IN CP/M ED.COM			
1.12	7K	EXAM.ASM	SECTOR VIEWER FOR
VDM. SEE DISK1.DOC			
1.13	1K	FILES.COM	GIVES CONSOLE
DISPLAY OF DIRECTORY			
1.14	1K	GETVEC.LIB	ASM ROUTINE TO
CREATE BIOS PRIMITIVE JUMP TABLE			
1.15	4K	HYS13.ASM	DIABLO DRIVER FOR
3P+S IN Z80			
1.16	5K	HYS15.ASM	DIABLO DRIVER FOR
3P+S IN 8080			
1.17	7K	ICOPY.ASM	COPY A FILE FROM
ISIS DISKETTE USE IDIR FIRST			
1.18	6K	IDIR.COM	LISTS DIRECTORY OF
ISIS DISKETTE IN B.			

1.19	7K	LIOS.ASM	CP/M I/O
SUBROUTINES. SEE PRINT FOR APPLICATION			
1.20	10K	LTG.ASM	
1.21	6K	MAZE.ASM	INTEL MAZE PROGRAM
1.22	4K	MEMTEST.ASM	INTEL RAM TEST
1.23	7K	PRINT.ASM	PRNT to permit
CONDITIONAL assembly			
1.24	5K	PRNT.ASM	TRANSIENT TO PRINT
FILES WITH PAGING			
1.25	10K	RELOC.ASM	CP/M RELOCATION
PROGRAM			
1.26	7K	RTE.ASM	INTEL REAL-TIME
EXECUTIVE			
1.27	4K	SEEDIT.ASM	SYMBOL TABLE EDITOR
OF DISASSM1			
1.28	16K	SPACE.ASM	GAME
1.29	8K	SPAT.ASM	RE-WRITE OF EXAM TO
ALLOW WRITING.			
1.30	3K	TRAIN.ASM	VDM GRAPHIC
1.31	4K	TREAD.ASM	TAPE READER TO DISK
TRANSFER			
1.32	17K	VBIOS31.ASM	BIOS FOR 32K OF
MEMORY WITH VDM			
1.33	3K	VBOOT31	COLD BOOT FOR
VBIOS31			
1.34	1K	XSTAT.COM	SIMILAR TO STAT.

VOLUME 2                   LAWRENCE LIVERMORE BASIC AND DISK  
TINY BASIC

2.1	84K	LLL BASIC.ASM	LLL BASIC INTERPRETER
SOURCE			
2.2	38K	LLL BASIC.COM	SIMPLE PATCHED COM
FOR CP/M			
2.3	2K	LLL BASIC.DOC	NOTES ON LLL BASIC
2.4	61K	LLL FP.ASM	FLOATING-POINT
PACKAGE FOR LLL BASIC			
2.5	2K	LLL MON.ASM	KLUGE MONITOR TO

TEST LLL IN LLLBASIC.COM

2.6	2K	STARTREK.DOC	COMMENTS ON
STARTREK.TBI			
2.7	6K	STARTREK.TBI	TINY BASIC LOADABLE
STARTREK			
2.8	3K	TINYBAS.COM	SHERRY version WANG
PALO ALTO TINY BASIC,			
2.9	13K	TINYBAS.DOC	FULL INSTRUCTIONS
FOR TINYBAS			

VOLUME 3                      VARIOUS BASIC E GAMES AND PROGRAMS

3.1	2K	ACE.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.2	4K	AMAZE.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.3	2K	ANIMAL.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.4	2K	BAGELS.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.5	6K	BAGELS2.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.6	7K	BIOPRINT.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.7	11K	BLKFRI.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.8	10K	BLKFRI2.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.9	6K	CANNONS.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.10	3K	CHASE.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.11	2K	CHOMP.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.12	1K	COMBINE.BAS	BASIC-E PROGRAM. SEE
DOC'S			
3.13	1K	CORE.BAS	BASIC-E PROGRAM. SEE
DOC'S			

3.14 DOC'S	1K	CORETEST.BAS	BASIC-E PROGRAM. SEE
3.15 DOC'S	4K	CRAPS.BAS	BASIC-E PROGRAM. SEE
3.16 DOC'S	1K	EUCLID.BAS	BASIC-E PROGRAM. SEE
3.17 DOC'S	1K	FIB.BAS	BASIC-E PROGRAM. SEE
3.18 DOC'S	1K	FIT.BAS	BASIC-E PROGRAM. SEE
3.19 DOC'S	4K	FORMAT.BAS	BASIC-E PROGRAM. SEE
3.21 DOC'S	5K	HANG.BAS	BASIC-E PROGRAM. SEE
3.22 DOC'S	5K	HELLO.BAS	BASIC-E PROGRAM. SEE
3.23 DOC'S	7K	KENO.BAS	BASIC-E PROGRAM. SEE
3.24 DOC'S	5K	LANDER.BAS	BASIC-E PROGRAM. SEE
3.25 DOC'S	8K	LANES.BAS	BASIC-E PROGRAM. SEE
3.26 DOC'S	7K	LEM.BAS	BASIC-E PROGRAM. SEE
3.27 DOC'S	3K	LOAN.BAS	BASIC-E PROGRAM. SEE
3.28	2K	LOVE.BAS	BASIC-E GRAPHIC
3.29 DOC'S	2K	PLOT2.BAS	BASIC-E PROGRAM. SEE
3.30 DOC'S	4K	POET.BAS	BASIC-E PROGRAM. SEE
3.32 DOC'S	5K	S/TREK.BAS	BASIC-E PROGRAM. SEE
3.33 DOC'S	4K	STARS.BAS	BASIC-E PROGRAM. SEE
3.34 DOC'S	27K	STARTREK.BAS	BASIC-E PROGRAM. SEE
3.35	7K	STORY.BAS	BASIC-E PROGRAM. SEE

DOC'S  
 3.36 4K STRIKE9.BAS BASIC-E PROGRAM. SEE  
 DOC'S  
 3.38 7K TTT.BAS BASIC-E PROGRAM. SEE  
 DOC'S  
 3.39 9K WUMPUS.BAS BASIC-E PROGRAM. SEE  
 DOC'S

VOLUME 4 ACTOR, ML80 AND EXAMPLES OF  
 FORTRAN-80 CODE

4.1 16K ACT.DOC ACTOR MANUAL  
 4.2 11K ACT31.COM ACTOR INTERPRETER  
 4.3 11K ACT31UC.COM UPPER-CASE CHARACTER  
 SET ACTOR INTERPRETER  
 4.4 2K AMAZE ACTOR PROGRAM  
 4.5 1K AMUSE ACTOR PROGRAM  
 4.6 16K CALENDAR.COM CALENDAR.FOR AND  
 NUMBER.MAC. CREATES a Calendar  
 4.7 4K CALENDAR.FOR FORTRAN MAIN AND  
 SUB-PROGRAMS  
 4.8 6K FDL ACTOR PROGRAM -  
 CAREFUL IT CLEARS INPUT FILES  
 4.9 2K HAIKU ACTOR PROGRAM  
 4.10 3K IOEXAMP ACTOR PROGRAM  
 4.15 20K MAZE.COM OBJECT OF MAZE.FOR  
 AND RND.FOR CREATES A MAZE  
 4.16 5K MAZE.FOR SOURCE OF MAZE.COM  
 MAIN  
 4.17 1K ML.SUB SUBMIT.COM COMMAND  
 FILE TO RUN ML80 SOURCE  
 4.18 1K MLCOPY.SUB SUBMIT.COM FILE TO  
 TRANSFER ML80 GROUP by PIP  
 4.19 2K NUMBER.MAC CALENDAR TITLE  
 GENERATOR  
 4.20 1K RND.FOR SUB-PROGRAM OF MAZE  
 4.21 1K WDIR.COM OBJECT OF WDIR.M80  
 (TRY IT!!)

4.22	3K	WDIR.M80	ML80 SOURCE FOR
WDIR.COM			
4.23	1K	XDIR.COM	OBJECT OF XDIR.M80
(TRY IT!!)			
4.24	4K	XDIR.M80	ML80 SOURCE FOR
XDIR.COM			
4.25	2K	Z-LCTOUC.ACT	ACTOR PROGRAM TO
CONVERT STD ACTOR PROGRAMS			

VOLUME 5                    BASIC-E COMPILERS AND  
INTERPRETERS , BASIC-E PROGRAMS ,  
CONTINUED FROM VOLUME 3 , MICROSOFT  
BASIC PROGRAMS

5.1	8K	21.ASC	MICROSOFT BASIC
PROGRAM			
5.2	12K	BAS2-0.COM	BASIC-E COMPILER
5.3	12K	BAS2-1.COM	CASIC-E COMPILER
5.5	5K	BIO-FF.ASC	MICROSOFT BASIC
PROGRAM			
5.6	4K	BIORYTH.ASC	MICROSOFT BASIC
PROGRAM			
5.7	10K	BLKFRI2.ASC	MICROSOFT BASIC
PROGRAM			
5.9	2K	DECISION.ASC	MICROSOFT BASIC
PROGRAM			
5.11	6K	EDTEXT.ASC	MICROSOFT BASIC
PROGRAM			
5.12	2K	FORMAT.ASC	MICROSOFT BASIC
PROGRAM			
5.14	16K	OTHELLO.BAS	BASIC-E PROGRAM
5.15	5K	OTHELLO.DOC	INSTRUCTIONS FOR
OTHELLO.BAS			
5.16	2K	RADIX.ASC	MICROSOFT BASIC
PROGRAM			
5.17	1K	RECOVERY.ASC	MICROSOFT BASIC
PROGRAM			
5.18	12K	RUN2-2.COM	BASIC-E INTERPRETER

5.19	12K	RUN2-3.COM	BASIC-E INTERPRETER
5.20	12K	RUNK2-0.COM	BASIC-E INTERPRETER
5.21	4K	SLOT.ASC	MICROSOFT BASIC
PROGRAM			
5.22	2K	SORT.ASC	MICROSOFT BASIC
PROGRAM			
5.23	7K	STARTREK.ASC	MICROSOFT BASIC
PROGRAM			
5.24	14K	SUPTRK3.ASC	MICROSOFT BASIC
PROGRAM			

VOLUME 6 CHICAGO AREA COMPUTER HOBBIEST  
EXCHANGE SOFTWARE

6.1	6K	BLOAD.ASM	TARBELL TAPE MITS
3.1 BASIC CSAVE TO ASCII			
6.2	34K	CCOS1.ASM	CACHE CASSETTE
OPERATING SYSTEM			
6.3	2K	CKSUM.ASM	CHECKSUMS CP/M FILES
6.4	5K	COMPARE.ASM	COMPARES TWO CP/M
FILES			
6.5	15K	CUTTER.ASM	SEEMS TO BE VDM TO
CASSETTE PROGRAM			
6.6	3K	IDUMP.ASM	INTERPRETED FILE
DUMP			
6.7	9K	MAINT.BAS	MAILLIST MODULE
6.8	13K	MODEM.ASM	PROGRAM TO
SEND/RECEIVE data, REMOTE COMPUTERS			
6.9	3K	PONG.ASM	VDM PONG GAME....
THIS FILE IS FAULTY			
6.10	1K	PREFMT.BAS	MAILLIST MODULE
6.11	3K	PURGE.ASM	DISKETTE DIRECTORY
PURGE			
6.12	1K	QUICKIE.BAS	MAILLIST MODULE
6.13	8K	REPORT.BAS	MAILLIST MODULE
6.14	6K	SIZE.ASM	GIVES SIZE OF CP/M
FILE			
6.15	5K	SLOAD.ASM	LOADER MODULE OF

CCOS1

6.16	7K	SORT.ASM	MAILLIST MODULE
6.17	4K	TISQ.ASM	TIMES SQUARE
(NEWSCASTER)		LETTERS TO VDM	
6.18	5K	TLOAD.ASM	TARBELL LOADER FOR
TSAVED FILES			
6.19	2K	TMAP.ASM	MAP OF TAPE WITH
TSAVED FILES			
6.20	5K	TSAVE.ASM	CP/M FILE TO TARBELL
TAPE WITH CHECKSUM			
6.21	58K	XREFASM.ASM	CP/M COMPATIBLE
ASSEMBLER PRODUCES XREF TABLES.			

VOLUME 7 PILOT - PROGRAMMED INQUIRY, LEARNING AND TEACHING

7.1	6K	PILOT	LOADED MDS OBJECT
7.2	66K	PILOT.ASM	PILOT SOURCE
7.3	135K	PILOT.LST	MDS ASSEMBLER
LISTING WITH X-REFERENCE TABLES			
7.4	6K	PILOT.OBJ	RELOCATABLE MDS
OBJECT			

VOLUME 8 VARIOUS CP/M UTILITY PROGRAMS

8.1	1K	ALLOC.COM	GRAPHIC DISPLAY OF
DISK USAGE			
8.2	6K	BANNER.ASM	PUTS LARGE LETTERS
TO LST: OR PUN:			
8.3	7K	BINLOAD1.ASM	PROGRAM TO READ DISK
DATA			
8.4	2K	BIOSGO.LIB	PRETTY VERSION OF
#1.14.			
8.5	2K	BPNF.ASM	PROGRAM TO PUNCH
BPNF PROM TAPE FROM MEMORY			
8.6	2K	BSPAT16B.ASM	PATCH TO PERMIT <BS>
IE. (CTL H) TO ECHO			
8.7	4K	BYTEMOV.ASM	BYTESAVER PROM



BURNING PROGRAM

8.8	2K	DDTPATCH.ASM	PATCH TO CORRECT
ASSEMBLER ERRORS IN DDT.			
8.9	9K	DISKDUP.ASM	THIS IS ANOTHER DISK
COPYING PROGRAM.			
8.10	2K	DISKIN.LIB	ROUTINE TO READ
SINGLE CHARS FROM DISK FILES			
8.11	7K	DISKTES1.ASM	VERSION OF #1.9 FOR
GENERALITY OF SYSTEM SIZES			
8.12	1K	DIVIDE1.LIB	ROUTINE TO DIVIDE 2
BYTE QUANTITY BY ONE BYTE			
8.13	17K	DSKDIR.ASM	SENDS TO CONSOLE DIR
DETAILS			
8.14	8K	FMAP.ASM	SENDS TO CONSOLE
DISK DETAILS			
8.15	4K	FORMAT1.ASM	DISKETTE FORMAT FOR
TARBELL CONTROLLER SSSD			
8.16	2K	GO.ASM	SAY "GO FF00" AND AS
IF BY MAGIC...			
8.17	2K	INNUM1.LIB	VARIABLE RADIX
NUMBER INPUT ROUTINE			
8.18	9K	MAC4.ASM	PATCHES TO PUT TDL
MACRO ASSEMBLER UP			
8.19	3K	MAKEFCB.LIB	ROUTINE TO CREATE
FCB'S			
8.20	1K	MPY8.LIB	TWO BYTE BY ONE BYTE
MULTIPLY			
8.21	2K	OUTNUM1.LIB	OUTPUT A TWO BYTE
NUMBER IN ANY CHOSEN RADIX			
8.22	2K	PBURN.ASM	BYTESAVER PROM
BURNER.			
8.23	10K	PRINT2.ASM	REVISION OF #1.24 TO
INCLUDE DIABLO DRIVER			
8.24	1K	RECSEC.LIB	ROUTINE TO TRANSLATE
CP/M RECORD (GROUP-CLUSTER)			
8.25	4K	SYMPRT.ASM	PROGRAM TO PRINT
BASIC-E SYMBOL TABLE			
8.26	2K	WYLECON2.LIB	ROUTINE TO TRANSLATE

WYLE KEYBOARD OUTPUT

8.27 20K XREF.ASM PROGRAM TO CREATE  
FULL INTEL CROSS-REFERENCE TABLE  
8.28 6K XSTAT2.ASM SOURCE OF #1.34 PLUS  
SOME GUESSED SUBROUTINES.

VOLUME 9 GENERAL LEDGER PROGRAM BY BUD  
SHAMBURGER

VOLUME 10 LAWRENCE LIVERMORE BASIC With CP/M  
WITH DISK Drivers

10.1 85K LLLBASIC.ASM SEE LLLBASIC.DOC  
10.2 7K LLLBASIC.COM TOTAL ASSEMBLED  
PACKAGE  
10.3 61K LLLFP.ASM SEE LLLBASIC.DOC  
10.4 5K LLLMON.ASM SEE LLLBASIC.DOC  
10.5 1K TEST.FIL TEST PROGRAM. TO  
RUN TYPE "LLLBASIC TEST.FIL"

VOLUME 11 DISK TINIBASIC AND DISK PROCESSOR  
TECHNOLOGY BASIC/5

11.1 76K BASIC/5.ASM PRO TECH 5K  
DISKIFIED BASIC  
11.2 8K BASIC/5.COM 5K BASIC IN 8K (SIGN  
OF THE TIMES)  
11.3 7K BASIC/5.DOC CP/M VERSION AND  
OTHER MAJOR EXTENSIONS  
11.4 6K STARTREK.TBI WAS ALSO #2.7 SEE  
VOLUME11.DOC  
11.5 1K TINICOPY.SUB SOMEONE USES THE  
SUBMIT PROGRAM??  
11.6 62K TINIDISK.ASM SOURCE OF TINIDISK  
11.7 3K TINIDISK.COM WAS ALSO #2.8  
11.8 13K TINIDISK.DOC WAS ALSO #2.9

VOLUME 12 PILOT INTERPRETERS PATCHED FOR CP/M

12.1	1K	GOLDI.PLT	SOURCE PROGRAM FOR
ZPILOT			
12.2	2K	HIPLOT.PLT	SOURCE PROGRAM FOR
ZPILOT			
12.3	67K	PILOT.ASM	PATCHED VERSION OF
#7.2 SEE PILOT.DOC			
12.4	5K	PILOT.COM	SEE PILOT.DOC
12.5	2K	PILOT.DOC	DESCRIPTION OF CP/M
IMPLEMENTATION OF PILOT			
12.6	1K	PILOT.TST	SOURCE FOR PILOT.
TYPE "PILOT PILOT.TST" TO RUN			
12.7	5K	PMON.ASM	CP/M INTERFACE USED
IN PILOT.COM			
12.8	1K	WIIRD	WIIRD.PLT RE-CODED
FOR THE PILOT.COM			
12.9	1K	WIIRD.PLT	SOURCE PROGRAM FOR
ZPILOT			
12.10	1K	ZPILOT.COM	OBJECT OF ZPILOT.Z80
12.11	7K	ZPILOT.Z80	ZILOG MNEMONIC
SOURCE OF A PILOT INTERPRETER.			

VOLUME 13                    BASIC-E/CBASIC AND MICROSOFT BASIC PROGRAMS

13.1	7K	15/PUZ.ASC	PROGRAM IN MICROSOFT
BASIC			
13.2	7K	1500.ASC	PROGRAM IN MICROSOFT
BASIC			
13.3	2K	23MATCH.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.4	3K	BAGELS.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.5	4K	BIORYME.ASC	PROGRAM IN MICROSOFT
BASIC			
13.6	6K	BLACKJAC.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.7	1K	BULLSEYE.BAS	PROGRAM IN

BASIC-E/CBASIC			
13.8	6K	CHECKERS.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.9	2K	CHIEF.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.10	2K	CONVERT.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.11	7K	DICE.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.12	7K	KINGDOM.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.14	15K	NFL.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.15	4K	ROCKET.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.16	1K	RUSSIAN.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.17	16K	SWARMS.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.18	16K	SWARMS2.ASC	PROGRAM IN MICROSOFT
BASIC			
13.19	2K	TRAP.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.20	6K	WUMPAS.BAS	PROGRAM IN
BASIC-E/CBASIC			
13.21	23K	ZOSO.2	

VOLUME 14                    VARIOUS CP/M UTILITIES

14.1	5K	ARTICLE	TEXT FOR SECTEST
BELOW			
14.2	6K	BCD-DRVR	DRIVER TO CONVERT
ASCII TO IBM2740		BCD	
14.3	5K	DLDHI.ASM	HIGH PORTION OF
DLOAD - SEE DOC			
14.4	5K	DLOAD.ASM	PATCHES TO PUT MITS
3.2 8K BASIC UP		ON CP/M	
14.5	4K	DLOAD.DOC	IMPLEMENTATION NOTES

FOR DLOAD

14.6	3K	DUMP.COM	RUNNING VERSION OF
DUMP BELOW			
14.7	23K	DUMP.MAC	FANTASTIC DISK
VIEWER PROGRAM.			
14.8	5K	LIST32.ASM	PROGRAM TO RECOVER
ASCII FILE			
14.9	2K	MOVE.ASM	TRANSFER FILES
WITHOUT THE PROBLEM OF CRL Zs			
14.10	3K	PUT.ASM	USED TO LOAD A FILE
AT ANY MEMORY ADDRESS			
14.11	10K	REL1.ASM	INSTRUCTIVE
RE-CONSTRUCTION OF RELOC/CPM PROGRAM			
14.12	9K	REL256.COM	RELOC FOR INTEGER
K-100H SYSTEM			
14.13	9K	REL512.COM	RELOC FOR INTEGER
K-200H SYSTEM			
14.14	9K	REL768.COM	RELOC FOR INTEGER
K-300H SYSTEM			
14.15	3K	RELHOW.DOC	IMPLEMENTATION NOTES
FOR RELOCATING CP/M VERS 1.3			
14.16	10K	SECTEST.BAS	CBASIC PROGRAM FOR
TESTING CONTEXT COMPREHENSION			
14.17	1K	SECTEST.DOC	BOB TELLS HOW TO USE
IT			
14.18	7K	SEDY.ASM	DISK PEEKING
PROGRAM.			
14.19	2K	SEDY.COM	COMPILATION, AS
14.18 WRITTEN FOR TDL ASSEMBLER			

VOLUME 15                    UTILITIES AND NON-BASIC GAMES

15.1	2K	ALLOC.ASM	SOURCE OF 8.1 WITH
IMPROVEMENTS			
15.2	2K	BEASTIE.ASM	SOL VDM GAME FROM
DR. DOBBS			
15.3	8K	CHASE.ASM	SOL VDM GAME FROM
DR. DOBBS			

15.4	6K	DUMP.ASM	KERNL UTILITY. SEE
15.7			
15.5	3K	INIT.ASM	KERNL INITIATION
ROUTINE.			SEE 15.7
15.6	3K	INIT2.ASM	KERNL INITIATION
ROUTINE.			SEE 15.7
15.7	57K	KERNL.ASM	KERNEL REAL-TIME
INTERACTIVE			SYSTEM
15.8	8K	MDGCBIOS.ASM	BIOS WRITTEN IN TDL
ASSEMBLER			FOR TARBELL CTRLR
15.9	2K	MDGSBOOT.ASM	BOOT FOR 15.5
15.10	25K	OTHELLO.COM	RUNNING OBJECT FROM
15.11			
15.11	12K	OTHELLO.FOR	FORTRAN SOURCE OF
BOARD			GAME
15.12	16K	PRINT3.ASM	FURTHER RE-WRITE OF
8.23			
15.21	4K	ROMP.ASM	TARBELL TAPE LOADER
AND			SAVER
15.22	46K	SOLOS.ASM	SOL OPERATING SYSTEM
PUBLISHED			IN ACCESS.
15.23	2K	TARGET.ASM	SOL VDM GAME BY
GEORGE			W. ROMPOT
15.24	6K	TLOAD.ASM	RE-WRITE OF 6.18
WITH			DOCUMENTED ENHANCEMENTS
15.25	5K	TSAVE.ASM	RE-WRITE OF 6.20
WITH			DOCUMENTED ENHANCEMENTS

VOLUME 16 ASSEMBLERS, OTHER UTILITIES AND FOCAL

16.1	9K	ASMX.COM	ASSEMBLER WHICH
RECOGNIZES			Z-80 OPS SEE VOL.DOC
16.2	12K	COPYDSK.ASM	DISK COPY PROGRAM.
SEE			VOL.DOC
16.3	13K	COPYDSK.MAC	AS 16.2 FOR TDL
ASSEMBLER			
16.4	7K	CPMUTIL.ASM	CP/M SUBROUTINES

16.5	3K	EDIT.COM	INTEL-LIKE EDITOR.
16.6	8K	EDUCATOR.ASM	8080 INSTRUCTION SET
TUTOR FROM BYTE JULY 1976			
16.7	57K	FOCAL.ASM	FOCAL LANGUAGE
INTERPRETER. SEE VOL.DOC			
16.8	8K	MACASM.COM	MACRO ASSEMBLER. SEE
VOL.DOC			
16.9	2K	MOVDOWN.ASM	PROGRAM TO LOAD FILE
WHICH OPERATES BELOW 100H			
16.10	2K	SEEK.ASM	SET DISK TRACK BY
FRONT PANEL DURING ALIGNMENT			
16.11	9K	SPAT1.ASM	RE-WRITE OF 1.29
16.12	2K	TASMIO.DOC	DOC FOR TASMIO PATCH
16.13	3K	TASMIO.HEX	SEE TASMIO.DOC
16.14	18K	TASMIO.MAC	SEE TASMIO.DOC
16.15	3K	TEST1A.ASM	SUCCESSFUL TEST FOR
Z80ASM 16.17			
16.16	1K	TEST2.ASM	UNSUCCESSFUL TEST
FOR Z80ASM 16.17			
16.17	9K	Z80ASM.COM	ZILOG MNEMONIC
ASSEMBLER.			
16.18	4K	Z80DOC.DOC	DOC FOR 16.17
VOLUME 17		UTILITIES, DENVER TINY BASIC AND	
NON-BASIC GAMES			
17.1	13K	3DTICTAC.ASM	GAME NOT YET PATCHED
TO CP/M			
17.2	50K	CROROS.ASM	CROMEMCO RESIDENT
OPERATING SYSTEM SEE VOL.DOC			
17.3	16K	DENVBAS.ASM	DENVER TINY BASIC
FROM DR. DOBBS NO CP/M I/O			
17.4	6K	DISASM.COM	REVISION OF INTEL
DISASSEMBLER SEE VOL.DOC			
17.5	6K	DISPLAY.ASM	PART OF SPACE GAME.
SEE VOL.DOC			
17.6	6K	FUNCTION.ASM	PART OF SPACE GAME.

SEE VOL.DOC  
 17.7 14K MINOL.ASM CORRECTED VERSION OF  
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 17.8 2K NUMS.ASM PART OF SPACE GAME.  
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 17.9 25K PROCCALC.ASM PRO TECH DESK  
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 17.10 19K SPACE.ASM PART OF SPACE GAME.  
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 17.11 7K Z80-OPS.ASM Z-80 MNEMONICS  
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18.1 40K CASUAL.ASM CASUAL LANGUAGE FROM  
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 18.2 39K FLTARITH.ASM SEC 1 OF INTEL 8008  
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 18.3 18K FPCONV.ASM SECTION 2 OF INTEL  
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 18.6 24K MILMON80.ASM STAND-ALONE MONITOR  
 EDITOR ASSEMBLER  
 18.7 46K PROCSELF.ASM SOFTWARE PACKAGE #1.  
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 19.2 6K COPY.ASM DISK COPY PROGRAM.  
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 19.3 9K CPM.DOC IMSAI'S DESCRIPTION  
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 19.4 21K LINK.ASM REMOTE COMPUTER  
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19.5	17K	LINK73.ASM	EARLIER VERSION OF
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19.6	60K	RM80.ASM	RESIDENT PROM
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19.7	8K	RM80.DOC	COMMENTS ON RM80
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19.8	4K	SAP.ASM	SORTS AND PACKS
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19.9	8K	SCOPY.ASM	DISKETTE COPY
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19.10	16K	TREAD.ASM	RM80 TAPE BACKUP
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20.3	9K	FOOTBALL.BAS	PROG IN
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20.8	18K	PINUP1.PIC	PICTURE
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21.6	6K	BLKJK.ASC	PROGRAM IN MICROSOFT
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21.8	12K	CHESS.ASC	PROGRAM IN MICROSOFT
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21.9	1K	DIAMONDS.ASC	PROGRAM IN MICROSOFT
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21.10	4K	ENTE.ASC	PROGRAM IN MICROSOFT
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21.11	6	ENTE.P.ASC	PROGRAM IN MICROSOFT
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21.14	8K	KING.ASC	PROGRAM IN MICROSOFT
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21.15	3K	LANDER.ASC	PROGRAM IN MICROSOFT
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21.16	2K	MANDALA.ASC	PROGRAM IN MICROSOFT
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21.17	4K	MAZE.ASC	PROGRAM IN MICROSOFT
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21.18	3K	ROCKET.ASC	PROGRAM IN MICROSOFT
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21.19	3K	RUSSIAN.ASC	PROGRAM IN MICROSOFT
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21.24	5K	TAXMAN.ASC	PROGRAM IN MICROSOFT
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21.25	16K	TRADE.ASC	PROGRAM IN MICROSOFT
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21.28	3K	WARI.ASC	PROGRAM IN MICROSOFT
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22.2	39K	BIGTREK.BAS	COMPACTED VERSION OF
22.1 FOR MUCH FASTER LOAD			

22.3	54K	STARTREK.TXT	STARTING POINT OF BIGTREK.
22.4	21K	STRTRK/2.ASC	A SECOND APPEARENCE OF PROGRAM 21.21
22.5	5K	TREKINFO.DOC	DETAILED RULES AND FEATURES OF
22.6	42K	TREKMOD.ASC	BIGTREK TRIMMED SOME MORE

VOLUME 23                    STOIC (STACK ORIENTED INTERACTIVE  
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23A.2	8K	DICT.DOC	STOIC DICTIONARY
23A.3	8K	EDIT.DOC	STOIC DISPLAY EDITOR
23A.4	9K	FILES.DOC	STOIC FILE SYSTEM
23A.5	5K	FLOATPNT.DOC	FLOATING POINT DOC
23A.6	2K	INTRRUPT.DOC	INTERRUPT HANDLER
23A.7	38K	KERNEL.ASM	STOIC KERNEL WITH
23A.8	24K	KERNEL.DOC	STOIC KERNEL DOC
23A.9	46K	STOIC.DOC	OVERVIEW OF STOIC
23A.10	23K	STOICBAS.STC	BASIC DEFINTIONS
23A.11	4K	STOICD/A.STC	GRAPHICS FOR D/A
23A.12	9K	STOICEDT.STC	EDITOR
23A.13	3K	STOICFFT.STC	FAST FOURIER
23A.14	8K	STOICFLE.STC	FILE SYSTEM
23A.15	11K	STOICFLT.STC	FLOATING POINT
23A.16	5K	STOICINT.STC	4 BYTE INTEGER

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23A.17	3K	STOICITP.STC	INTERRUPT PACKAGE
23A.18	3K	STOICMIS.STC	MISCELLANEOUS WORDS
23A.19	2K	STOICSIN.STC	INTEGER SINE AND
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23A.20	2K	STOICSRT.STC	SORT ROUTINE

23B.1	1K	BOOT.ASM	STOIC BOOTSTRAP IN
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23B.2	2K	BOOT.DOC	BOOT DOC
23B.3	6K	LOAD.DOC	INFORMATION ON
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23B.4	13K	STOIC.COM	CP/M STOIC
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24.4	17K	MACRO.LIB	EXTENSIVE MACRO
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24.5	3K	OPCODE.LIB	EXTENDED REGISTER
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24.6	32K	RATFOR.COM	PRE-PROCESSOR TO
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24.7	5K	TAPELIB.COM	OBJECT OF 24.9
24.8	12K	TAPELIB.DOC	DESCRIPTION OF 24.9
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24.10	11K	XDIR.ASM	DIRECTORY PROGRAM
24.11	2K	XDIR.COM	OBJECT OF 24.10

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25.3	3K	BKSPACE.DOC
		NOTES ON BACKSPACE
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25.4	4K	FRAGMENT.DOC
		PAGING AND SCREEN
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25.5	5K	LETTER.ASM
		PERSONALIZED FORM
LETTER GENERATOR. FOR MAC		
25.6	3K	LETTER.DOC
		DOCUMENTATION FOR
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25.7	6K	MYMAC.LIB
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25.8	2K	NAMES.DAT
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25.9	9K	DCHAYES.ASM
		PROGRAM IN DCHAYES
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25.10	7K	DCHDIAG.ASM
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25.11	13K	MODEM.ASM
		INTELLIGENT TERMINAL
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25.12	3K	MODEM.DOC
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25.13	26K	CBIOS24.ASM
		BIOS FOR TARBELL
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25.14	2K	SBOOT24.ASM
		BOOT FOR TARBELL
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25.15	26K	FBIOS24.ASM
		BIOS FOR DUAL PERSCI
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25.16	2K	FBOOT24.ASM
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25.17	9K	COPY.ASM
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25.19	3K	TARBELL.DOC
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25.21	5K	CAT.ASM
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25.22	8K	UCAT.ASM	MASTER DISK CATALOG
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25.23	5K	QCAT.ASM	MASTER DISK CATALOG
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25.24	7K	CATALOG.DOC	DOCUMENTATION FOR
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25.25	13K	STOIC.COM	CP/M STOIC
25.26	7K	BOOT.ASM	STOC BOOTSTRAP IN
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25.27	2K	BOOT.DOC	BOOT DOCUMENTATION
25.28	6K	LOAD.DOC	INFORMATION ON
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25.29	1K	STATPCH.ASM	DEVICE NAME PATCHES
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25.30	3K	TTYDRV.MAC	TTY DRIVERS FROM
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26.2	14K	BASEBALL.ASC	MICROSOFT BASIC GAME
26.3	7K	BIOCAL.ASC	BIORHYTHM PROGRAM.
SEE ZOSO26.DOC.			
26.4	6K	BIRTHDAY.ASC	GIVES DAY OF WEEK
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26.5	8K	BLACKJACK.ASC	MICROSOFT BASIC
GAME. SEE ZOSO26.DOC			
26.6	10K	BUDGET.ASC	BUDGET PROGRAM. SEE
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26.7	3K	CHASE.ASC	MICROSOFT BASIC GAME
26.8	12K	CHESS.ASC	MICROSOFT BASIC GAME
26.9	9K	CIVILWAR.ASC	MICROSOFT BASIC GAME
26.10	6K	CLIMATES.ASC	MICROSOFT BASIC GAME
26.11	6K	CLOUD-9.ASC	MICROSOFT BASIC GAME
26.12	5K	CRAPS.ASC	MICROSOFT BASIC GAME

26.13	7K	CRAZY-8.ASC	MICROSOFT BASIC GAME
26.14	1K	GALAXY.ASC	MICROSOFT BASIC GAME
26.15	2K	GALAXY2.ASC	MICROSOFT BASIC GAME
26.16	8K	SQUARE.ASC	MICROSOFT BASIC GAME
26.17	16K	SWARMS.ASC	MICROSOFT BASIC GAME
26.18	8K	WEATHER.ASC	MICROSOFT BASIC GAME
26.19	5K	WORD-PLZ.ASC	MICROSOFT BASIC GAME
26.20	12K	OTHELLO.FOR	FORTRAN VERSION OF
OTHELLO ON VOL 15.			
26.21	22K	OTHELLO.COM	EXECUTABLE 26.20
26.22	1K	CHAIN.ASC	PROGRAM TO COPY FROM
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26.23	2K	EDITM.FOR	FORTRAN IV PROGRAM.
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VOLUME 27                    MICROSOFT BASIC GAMES

27.1	6K	ANTONYMS.ASC	MICROSOFT BASIC GAME
27.2	4K	DISSAMBR.ASC	DISASSEMBLER.    SEE
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27.3	8K	DOTS.ASC	MICROSOFT BASIC GAME
27.4	3K	DRAGRACE.ASC	MICROSOFT BASIC GAME
27.5	8K	FOOTBALL.ASC	MICROSOFT BASIC GAME
27.6	10K	GOLF.ASC	MICROSOFT BASIC GAME
27.7	2K	GREEKRTS.ASC	MICROSOFT BASIC GAME
27.8	6K	HANGMN-1.ASC	MICROSOFT BASIC GAME
27.9	6K	HANGMN-2.ASC	MICROSOFT BASIC GAME
27.10	6K	HANGMN-3.ASC	MICROSOFT BASIC GAME
27.11	3K	HIDEESEEK.ASC	MICROSOFT BASIC GAME
27.12	5K	IQUEEN.ASC	MICROSOFT BASIC GAME
27.13	2K	MASTERMD.ASC	MICROSOFT BASIC GAME
27.14	5K	MAZE.ASC	MICROSOFT BASIC GAME
27.15	7K	MEMBRAIN.ASC	MICROSOFT BASIC GAME
27.16	2K	NIM.ASC	MICROSOFT BASIC GAME
27.17	7K	ROULETTE.ASC	MICROSOFT BASIC GAME
27.18	9K	SHOP.ASC	MICROSOFT BASIC GAME
27.19	4K	SNOOPY.ASC	GENERATES SNOOPY
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27.20	7K	STARTREK.ASC	MICROSOFT BASIC GAME
27.21	8K	SYNONYMS.ASC	MICROSOFT BASIC GAME
27.22	11K	BLUFF.INT	MICROSOFT BASIC GAME
27.23	12K	RUN.COM	RUN PROGRAM TO
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27.24	46K	MEGATREK.ASC	22.1 TRIMMED TO RUN
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28.2	6K	DBENTRY.BAS	D.B. SYSTEM FILE
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28.3	7K	DBQUERY.BAS	D.B. SYSTEM QUERY
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28.4	7K	DBSETUP.BAS	D.B. SYSTEM FILE
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28.5	1K	INV.	SAMPLE FILE
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28.6	1K	INV.IND	SAMPLE PART # INDEX
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28.7	23K	MAILLIST.DOC	DOCUMENTATION FOR
CACHE MAILING LIST SYSTEM			
28.8	11K	MAINT.BAS	UPDATED MAILLIST
PROGRAM. HANDLES MORE DATA			
28.9	11K	REPORT.BAS	IMPROVED MAILLIST
REPORT PROGRAM.			
28.10	14K	ALGOLM.COM	ALGOLM COMPILER BY
LT. MARK S. MORANVILLE			
28.11	14K	RUNALG.COM	ALGOLM INT FILE
INTERPRETER			
28.12	9K	ALGINTRO.TXT	ALGOLM INTRODUCTION
28.13	3K	ALGSTART.TXT	ALGOLM RUN

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28.14	2K	COMERR.TXT	ALGOLM	COMPILE
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28.15	2K	RUNERR.TXT	ALGOLM	RUN TIME
ERRORS DOCUMENTATION				
28.16	25K	USRMAN.TXT	ALGOLM	USER MANUAL
28.17	3K	ARRAY.ALG	SAMPLE	ALGOLM
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28.18	1K	BOOLINT.ALG	SAMPLE	ALGOLM
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28.19	1K	CASETEST.ALG	SAMPLE	ALGOLM
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28.20	1K	CASETWO.ALG	SAMPLE	ALGOLM
PROGRAM				
28.21	1K	FLYTEST.ALG	SAMPLE	ALGOLM
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28.22	1K	GOTOTEST.ALG	SAMPLE	ALGOLM
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28.23	1K	HANOI.ALG	SAMPLE	ALGOLM
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28.24	2K	LUNAR.ALG	SAMPLE	ALGOLM
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28.25	2K	PERM.ALG	SAMPLE	ALGOLM
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28.26	2K	READWORD.ALG	SAMPLE	ALGOLM
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28.27	1K	RWINT.ALG	SAMPLE	ALGOLM
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28.28	1K	SIISTR.ALG	SAMPLE	ALGOLM
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28.29	2K	SORT.ALG	SAMPLE	ALGOLM
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28.30	1K	STRING.ALG	SAMPLE	ALGOLM
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28.31	1K	STRTST.ALG	SAMPLE	ALGOLM
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28.32	1K	BLKTEST.ALG	SAMPLE	ALGOLM
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28.33	1K	ONEND2.ALG	SAMPLE ALGOLM
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28.34	1K	WFILE.OUT	SAMPLE ALGOLM
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28.40	4K	ADM3.MOD	MODS FOR ADM3

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29.1	25K	TTT.ASM	3-D TIC TAC TOE GAME
29.2	9K	CHASE.ASM	VDM/SOL GAME. 15.3
WITH CP/M I/O.			
29.3	3K	TARGET.ASM	VDM/SOL GAME.
29.4	8K	DEFLECT.ASM	VDM GAME
29.5	8K	MUSIC.ASM	MUSIC PROGRAM
29.6	2K	MUSICP.COM	MUSIC PROGRAM
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29.7	12K	PIRANHA.ASM	VDM GAME
29.8	19K	ROBIN.ASM	USES POLY VTI. SEE
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29.9	3K	ROBOT.ASM	VDM GAME
29.10	2K	ALLOC.ASM	DISK ALLOCATION
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29.11	24K	EDIT.ASM	DISASSEMBLY OF 16.5.
SEE VOLUME29.DOC.			
29.12	5K	SAP.ASM	SORTS AND PACKS
DIRECTORY. IMPROVED VERSION			
29.13	3K	NOTATE.ASM	ADDS COMMENTS TO ASM
SOURCE.			
29.14	1K	SYMSTACK.LIB	ASSEMBLER TIME
PUSH/POP LIB FOR MAC.			
29.15	2K	NCOMPARE.LIB	CORRECTED VERSION
29.16	11K	SEQIO.LIB	CORRECTED VERSION
29.17	1K	WHENS.LIB	MODIFICATION OF
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29.18	1K	DOWHILES.LIB	MODIFICATION OF
DIGITAL RESEARCH VERSION			
29.19	2K	SELECTS.LIB	MODIFICATION OF

DIGITAL RESEARCH VERSION			
29.20	1K	IGADD.MAC	SUBROUTINE CALLABLE
FROM FORTRAN-80			
29.21	1K	MON1.MAC	SUBROUTINE CALLABLE
FROM FORTRAN-80			
29.22	1K	MON2.MAC	SUBROUTINE CALLABLE
FROM FORTRAN-80			
29.23	2K	UNLOAD.ASM	CONVERTS COM FILE TO
HEX. ASSEMBLE USING MAC.			
29.24	14K	FPCONV.SRC	CP/M BASIC-E
FLOATING POINT CONVERSION PACKAGE			
29.25	2K	FPDATA.SRC	EQUATE TABLES FOR
FPCONV			
29.26	8K	FPINT.SRC	INTERFACE BETWEEN
INTERPRETER-FLOATING POINT			
29.27	29K	FPPKG.SRC	INTERPRETER
29.28	13K	TRAN.SRC	TRANSCENDENTAL
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29.29	5K	MOVE.ASM	1 DISK MOVE PROGRAM.
ASSEMBLE USING MAC.			
29.30	6K	MOVENMAC.ASM	MOVE.ASM WITH MACROS
EXPANDED FOR ASSEMBLY			
29.31	5K	TIMESQ.ASM	SIGN GENERATOR FOR
VDM.			
29.32	3K	WSYSGEN.ASM	PROGRAM TO SYSGEN A
STACK OF DISKS EASILY.			
29.33	1K	VDM.DOC	MODIFY ED TO PAGE 16
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30.1	2K	BASCOM.LIT	LITERAL EQUATES
30.2	39K	BASIC.PLM	VERSION 1.4 BASIC-E
COMPILER MODIFIED FOR CP/M			
30.3	14K	BASPAR.PLM	PARSER MODULE
30.4	54K	BASSYN.PLM	SYMBOL TABLE AND
CODE GENERATOR MODULE			
30.5	12K	BASIC.COM	EXECUTABLE COMPILE

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30.6	66K	RUN.PLM	RUN MODULE
30.7	12K	RUN.COM	EXECUTABLE RUN

MODULE

30.8	17K	BUILD.PLM	INVOKED WHEN RUN CALLED TO BUILD
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31.1	2K	TBASIC.TOC	TABLE OF CONTENTS OF CHAPTERS & APPENDICES
31.28	3K	TBASIC.IND	INDEX
31.29	3K	TBASIC.AD	PRODUCT DESCRIPTION
31.30	3K	TBASIC.CPM	SPECIAL INSTRUCTIONS
31.31	21K	TBASIC.COM	EXECUTABLE MODULE
31.32	43K	TBASICA4.ASM	SOURCE MODULE

VOLUME 32            TARBELL BASIC. ASSEMBLER SOURCE

32.2	10K	RTMASM.COM	MULTI INPUT FILE ASSEMBLER
32.3	3K	RTMASM.DOC	INSTRUCTIONS FOR ASSEMBLING
32.4	26K	TBASICA1.ASM	SOURCE MODULE

VOLUME 33            SEARCH AND RESCUE PROGRAMS FROM R.A. GREGOIRE

33.1	8K	SAR.DOC	DETAILED DESCRIPTIONS OF THE SAR PROGRAMS
33.2	1K	ADDPOD.BAS	CALCULATES JOINT PROBABILITY OF DETECTION
33.3	18K	BITCASP.BAS	ENHANCED RJCASP TO USE SUMMAGRAPHICS BITPAD
33.4	22K	CAESAR.BAS	FLIGHT LOG KEEPER
33.5	2K	CAESAR.BQ	CAESAR BRIEFING QUESTIONNAIRE

33.6	2K	CAESAR.DQ	CAESAR DEBRIEFING
QUESTIONNAIRE			
33.7	4K	CAESAR.MQ	CAESAR MISSION
QUESTIONNAIRE			
33.8	4K	CAPSERCH.BAS	GAME TO TEACH
FUNDAMENTALS OF SAR			
33.9	20K	CASPGAME.BAS	DEMONSTRATOR FOR
BITCASP			
33.10	14K	CASPPLUS.BAS	EXPANDED VERSION OF
RJCASP			
33.11	7K	DFELT.BAS	RE-WRITE OF N-ELT1
33.12	3K	ELTPOD.BAS	CALCULATES
ELECTRONIC DISCOVERY PROBABILITIES			
33.13	10K	N-ELT1.ASC	MICROSOFT BASIC
VERSION - SEE 33.15			
33.14	10K	N-ELT1.BAS	CBASIC VERSION - SEE
33.15			
33.15	6K	N-ELT1.DOC	RADIO DIRECTION
FINDING TO LOCALIZE RADIO BEACON			
33.16	2K	OPT.BAS	TESTS PROBABILITY OF
VISUAL DETECTION			
33.17	3K	RJCASP.BAS	ALLOCATION OF SEARCH
RESOURCE			
33.18	9K	SERCHGME.BAS	33.8 RE-WRITTEN AS
STRUCTURED PROGRAM			
33.19	3K	VISPOD.BAS	CALCULATES VISUAL
DISCOVERY PROBABILITIES			

VOLUME 34            SAM76. An interesting macro / text processing language.

34.1	1K	ABSTRACT.034	Quick look at SAM76
34.2	8K	ASTRO.FNT	Astrological signs
for graphics			
34.3	1K	BONUS.DOC	Function
documentation			
34.4	1K	BOOK.DOC	How to order SAM76
manual			

34.5	1K	COPY.COM	* Disk copy program
34.6	1K	CPMSETL.COM	Part of SAM76 setup
procedure			
34.7	3K	DEMO.SAM	Some interesting
demo programs			
34.8	1K	DIRFIX.SAM	Disk directory
routines			
34.9	19K	EXTF.ASM	Various routines,
including			
34.10	1K	EXTF.DOC	..a clock driver.
34.11	1K	FRIEND.DOC	
34.12	2K	G.SAM	Sets up SAM for
load-and-go			
34.13	1K	HOOH.SAM	Hex to octal to hex
34.14	1K	IDUMP.COM	Interpreted file
dump (**)			
34.15	13K	ILRAW.COM	Raw copy of SAM76.
See READ-ME.DOC and S.DOC			
34.16	10K	INFO.SAM	Creates following
.DOC files			
34.22	1K	KSAP.COM	* Sort and pack
directory			
34.23	3K	LABEL.SAM	Demo prog.
34.24	1K	LOOP.SAM	Demo prog.
34.25	1K	MOVE2.SAM	Demo prog.
34.26	1K	MULT.SAM	Multiplies long
decimal #'s			
34.27	5K	NEWS.SAM	Random news story
generator.			
34.28	10K	P1UR.FNT	Used with graphics
34.29	15K	PLOT.ASM	For graphics on
Poly/TRS-80			
34.30	1K	PLOT.DOC	..type board, or
plotter.			
34.31	7K	PRINT.SAM	Print SAM files
34.32	3K	READ-ME.DOC	One user's
experiences.			

34.33	2K	S.DOC	Doc on creating
S.COM			
34.43	4K	XD.COM	* directory lister
34.44	1K	XDIR.COM	* directory lister
34.45	1K	XM.COM	* directory lister

VOLUME 35            FELIX - GRAPHICS ANIMATION SYSTEM -  
with pseudo assembler, etc.

35.1	2K	BEE.FAS	Source code for a cartoon on a bee and a bird.
35.2	10K	BEE#.FEX	Executable bee story, w/background and objects.
35.3	5K	CHECKOU&.FEX	Executable checkout.
35.4	4K	CHECKOUT.FAS	Felix pseudo-machine diagnostic program
35.5	8K	CLEAR.ASM	Start of FELIX source code
35.6	1K	CREATE.ASM	FELIX source code
35.7	1K	DISPONOF.ASM	FELIX source code
35.8	1K	DISTEST.FAS	Demo of distance operator, joystick rescaling.
35.9	5K	DISTEST&.FEX	Executable DISTANCE TEST.
35.10	11K	DISTPLUS.ASM	FELIX source code
35.11	14K	DOODLE.ASM	FELIX source code
35.12	1K	DOODLE.COM	OBJECT DRAWING UTILITY.
35.13	3K	DSKRD.ASM	FELIX source code
35.14	1K	EXEC.COM	PSEUDO-MACHINE INTERPRETER.
35.15	2K	EXEC.OBJ	The 'actual' pseudo-machine
35.16	9K	EXECPLUS.ASM	FELIX source code
35.17	2K	EXECSAFE.ASM	FELIX source code
35.18	10K	FANCY#.FEX	'PAINTER&' but with a pretty init. background



35.19	9K	FASM.COM	PSEUDO-CODE
ASSEMBLER.			
35.20	1K	FCBMOV.ASM	FELIX source code
35.21	1K	FCBNEW.ASM	FELIX source code
35.22	5K	FELIX.ASM	FELIX source code
35.23	1K	FELIX.COM	INITIAL SETUP
ROUTINE.			
35.24	7K	FELIX.DOC	SOME DETAILS ABOUT
THE SYSTEM.			
35.25	3K	FELIX.OBJ	The 'actual' base
routines (load by FELIX.COM)			
35.26	3K	FELIXV1.CAT	Author's original
volume cat.			
35.27	2K	GETF.ASM	FELIX source code
35.28	2K	GETW.ASM	FELIX source code
35.29	2K	HEXOUT.ASM	FELIX source code
35.30	2K	LOADBACK.COM	Utility for getting
backgrounds from disk.			
35.31	2K	LOADOB.COM	utility for getting
objects from disk			
35.32	5K	LOADPROG.ASM	Utility for getting
programs from disk.			
35.33	1K	LOADPROG.COM	Object of above
35.34	2K	MUSTANG.FAS	Cowboy jumps on a
horse as it rides by.			
35.35	6K	MUSTANG&.FEX	Executable cowboy
story.			
35.36	15K	NUMBER.ASM	FELIX source code
35.37	3K	OBJECT.ASM	FELIX source code
35.38	1K	OBJNULL.ASM	FELIX source code
35.39	1K	PAINT.FAS	Source code for a
simple painter.Need joysticks			
35.40	1K	PAINT.FEX	PAINTER for use with
your own objects.			
35.41	2K	PAINT.PRN	PAINT.FAS listing
35.42	6K	PAINT&.FEX	Painter for use with
its own objects.			
35.43	4K	PAINTER.FEX	Painter using

'Theta' (added A/D in)

35.44	6K	PAINTER&.FEX	Painter with Theta and its own objects.
35.45	11K	PARM.ASM	FELIX source code
35.46	3K	PATH.ASM	FELIX source code
35.47	3K	POSIT.ASM	FELIX source code
35.48	3K	PUTF.ASM	FELIX source code
35.49	3K	PUTW.ASM	FELIX source code
35.50	1K	RESCALE.ASM	FELIX source code
35.51	5K	ROTATE.ASM	FELIX source code
35.52	1K	SAPD.COM	????
35.53	2K	SAVEBACK.COM	Utility for saving backgrounds to disk.
35.54	2K	SAVEOB.COM	Utility for saving objects to disk
35.55	5K	SHOWSWAP.ASM	FELIX source code
35.56	4K	SINCOS.OBJ	A SIN-COS table
35.57	1K	SPIN.ASM	FELIX source code
35.58	1K	TABLE.ASM	FELIX source code
35.59	2K	TRACE.ASM	FELIX source code
35.60	1K	TRACE.COM	Pseudo-machine interpreter with trace.
35.61	2K	XTRA.ASM	FELIX source code

VOLUME 36           Assemblers, editors, text processor  
related programs, memory  
                      bank boot and manager, misc.  
utilities,drivers for TDL software

36.1	7K	COMBINE.ASM	Combine multiple .asm files..
36.2	1K	COMBINE.COM	..and delete comments
36.3	4K	CPM-PEN.ASM	Convert CP/M to electric..
36.4	1K	CPM-PEN.COM	..pencil files
36.5	8K	FIND.ASM	Find ASCII string in 1 or..

36.6	1K	FIND.COM	..more files
36.7	1K	FIND.DOC	DOC on above
36.8	11K	L82.COM	ML80 Component
36.9	1K	LINES.COM	Count lines in an ASCII file
36.10	1K	LINES.DOC	DOC of above
36.11	6K	LINKASM.COM	ASM.COM with feature to link..
36.12	5K	LINKASM.DOC	..files together at assembly
36.13	1K	LIST.COM	List files with starting..
36.14	1K	LIST.DOC	..line number
36.15	10K	M81.COM	ML80 Component
36.16	11K	MAC6.AZM	I/O drivers for TDL..
36.17	2K	MAC6.COM	..macro assembler
36.18	4K	MAC6.DOC	..
36.19	8K	MBMBOT.ASC	Memory bank boot & mgmt
36.20	3K	MFACCESS.LIB	setup for..multiple files (ex: *.ASM)
36.21	2K	ML80.DOC	DOC on ML80 components
36.22	9K	ML80.REF	Reference material on ML80
36.23	3K	PEN-CPM.ASM	Electric Pencil to CP/M file..
36.24	1K	PEN-CPM.COM	..conversion program
36.25	2K	PEN-CPM.DOC	..
36.26	24K	POW.ASM	Source for text processor
36.27	5K	POWCMD.S.POW	POW documentation
36.28	2K	POWTEXT.POW	More POW doc.
36.29	6K	SCRAMBLE.ASM	File encode/decode
36.30	2K	SCRAMBLE.DOC	Doc on above
36.31	17K	TED.COM	Nice CP/M text editor, with..

36.32	23K	TED.DOC	..built in help features.
36.33	10K	TOP.AZM	TDL Text output processor..
36.34	5K	TOP.PRN	..patches
36.35	3K	TOP.TOP	..
36.36	22K	XREF.ASM	Cross references

.ASM files

VOLUME 37           CBASIC2 programs, Comprehensive arithmetic teaching programs,  
                       CRAPS program, some accounting programs, parts list program  
                       Basic interpreter keyword changer  
 (not CBASIC)

37.1	3K	AREA.BAS	(1) Metric conversion in CBASIC
37.3	3K	CHAIN.BAS	(1) Menu program for arithmetic drills.
37.6	1K	COMPILE.SUB	(1) Compiles arith. drill progs
37.7	3K	CPUPARTS.BAS	(4) Data table for MANPARTS
37.8	41K	CRAPS.BAS	(2) Very complete program
37.9	1K	CRAPS.DOC	(2) DOC on above
37.11	3K	DEC1.BAS	(1) Arithmetic drill
37.23	3K	DECIMAL.BAS	(1) Arithmetic drill
37.26	3K	DISTANCE.BAS	(1) Metric conversions drill
37.28	5K	FORMULA.BAS	(1) Drill formulas, volume, etc
37.30	3K	FRAC1.BAS	(1) Arithmetic drill
37.38	4K	FRACTION.BAS	(1) Arithmetic drill
37.40	1K	GRADE.BAS	(1) Arith drill grading program
37.41	1K	HEADER.BAS	(1) %Include for

drill progs.			
37.42	4K	INTEGER.BAS	(1) Arithmetic drill
37.44	13K	JRNL.BAS	(3) Accounting
program			
37.46	1K	MANPARTS.BAS	(4) Manufactured
parts program			
37.47	3K	NEWRAC2.BAS	(1) Arithmetic Drill
program			
37.48	1K	PARTS.BAS	(4) Parts list
generator			
37.49	2K	PASSWORD.BAS	(5) Change BASIC
keywords to protect programs			
37.50	3K	PERCENT.BAS	(1) Arithmetic drill
program			
37.52	3K	VOLUME.BAS	(1) Arithmetic drill
program			
37.54	3K	WEIGHT.BAS	(1) Arithmetic drill
program			
37.56	3K	WHOLE.BAS	(1) Arithmetic drill
program			

VOLUME 38 CP/M speed up utilities (and bios auto-reloc)

Tarbell controller utilities

38.1	5K	BVBOOT.ASM	(1) Boot for full sized..Tarbell running BVIOS
38.2	28K	BVIOS.ASM	(1) Compact BIOS .
38.3	56K	DFOCO.ASM	(2) Double Density
FOrmat and..			
38.4	8K	DFOCO.COM	(2) ..COpy option for Tarbell..
38.5	20K	DFOCO.DOC	(2) ..and Delta disk cntrlrs
38.6	1K	DMSPATCH.ASM	(1) FAST patch for Digital Micro Systems Drives
38.7	1K	DSCUSPAT.ASM	(1) FAST patch for Discus 2D

38.8	20K	FAST.ASM	(1) Speed up
transients via..			
38.9	2K	FAST.COM	(1) track & dir.
buffering.			
38.10	3K	FASTNSTL.DOC	(1) FAST
installation doc			
38.11	18K	FMAN.PRN	(1) FAST operations
manual			
38.12	18K	MACRO.LIB	(2) Used by DFOCO
38.13	1K	MICROPAT.ASM	(1) FAST patch for
Micropolis			
38.14	15K	PACKUP.ASM	(1) Part of FAST
38.15	4K	REL.ASM	(1) Relocation
utility source			
38.16	2K	REL.UTL	(1) Relocation
utility			
38.17	2K	RELCPM.DOC	(1) Doc on
relocation pgms			
38.18	1K	RELCPM.SUB	(1) Submit file for
relocations			
38.19	1K	RELED.SUB	(1) Submit file for
relocations			
38.20	2K	RELHDR.ASM	(1) Hdr for REL.UTL
38.21	3K	RSPEED.ASM	(1) Routine to
determine how..			
38.22	1K	RSPEED.COM	(1) ..FAST your disk
reads,..			
38.23	1K	SKEW2PAT.ASM	(1) Skew table patch
for FAST			
38.24	1K	SKEW3PAT.ASM	(1) Skew table patch
for FAST			
38.25	2K	SMAN.PRN	(1) SPEED operations
manual..add to FMAN.PRN			
38.26	5K	SPEED.COM	(1) CCP replacement
with full track blocking			
38.27	3K	UTL.LIB	(1) Macro library
for reloc.			

## VOLUME 39

## MUSIC PROGRAMS:

39.1	2K	2PRTFJSB.MUS	(2)	Source music
score, BACH 2 part invention				
39.2	4K	2PRTFJSB.NOT	(2)	"Compiled" score
39.3	4K	AIR.MUS	(1)	Source music
score				
39.4	1K	ALLEGRO.MUS	(1)	Source music
score				
39.5	1K	AMERICA.MUS	(1)	Source music
score				
39.6	3K	ARIA.MUS	(1)	Source music
score				
39.7	2K	AWAVE.BAS	(2)	Wave form
generator				
39.8	2K	AWAVE.INT	(2)	INT of above
39.9	1K	BOOGIE.MUS	(1)	Source music
(diddling)				
39.10	2K	BOUREE.MUS	(1)	Source music
score				
39.11	1K	BREEZ.MUS	(1)	Source music
score				
39.12	2K	CALIOPE.MUS	(1)	Source music
(Super!)				
39.13	1K	CHOPS.MUS	(1)	Source music
score				
39.14	3K	CHORALE.MUS	(1)	Source music
score				
39.15	1K	DAISY.MUS	(1)	Source music
score				
39.16	1K	ENTER.MUS	(1)	Source music
(Partial)				
39.17	1K	FIX.SUB	(2)	To remove ("
from music..BASIC "compiled"				
39.18	3K	HUSTLE.MUS	(1)	Source music
score				
39.19	1K	IRISH.MUS	(1)	Source music
score				

39.20	2K	LAWRENCE.MUS	(1)	Source music
score (Arabia)				
39.21	3K	LVBMIN.MUS	(2)	Source music
score				
39.22	7K	LVBMIN.NOT	(2)	Compiled score
39.23	2K	MAPLE.MUS	(1)	Source music
score				
39.24	1K	MARINE.MUS	(1)	Source music
score				
39.25	3K	MINWALZ.MUS	(1)	Source music
(L-uuuv it)				
39.26	1K	MRIVER.MUS	(1)	Source music
score				
39.27	5K	MUSIC.COM	(1)	Executable code
39.28	13K	MUSIC.DOC	(1)	Doc incl how to
put..hardware on your micro				
39.29	14K	MUSIC4.ASM	(2)	The music driver
program				
39.30	2K	MUSIC4.COM	(2)	COM of above
39.31	2K	MUSIC4.DOC	(2)	Doc on MUSIC4
39.32	3K	MUSPAT.DOC	(3)	DOC on
following:				
39.33	7K	MUSPAT.HEX	(3)	HEX patch file
39.34	2K	MYLIFE.MUS	(1)	Source music
score				
39.35	3K	NOTES.BAS	(2)	Tune
constructing program				
39.36	2K	NOTES.INT	(2)	INT of above
39.37	1K	PIC.MUS	(1)	Source music
score				
39.38	3K	PRELUDE.MUS	(1)	Source music
score				
39.39	1K	PUR2MIN.MUS	(2)	Source music
score				
39.40	3K	PUR2MIN.NOT	(2)	Compiled score
39.41	3K	REMOV".ASM	(2)	Remove (") from
a file				
39.42	1K	REMOV".COM	(2)	COM of above



39.43	1K	ROLLING.MUS	(1) Source music score
39.44	2K	SARABAND.MUS	(1) Source music score
39.45	2K	SMALL.MUS	(1) Source music score
39.46	3K	SPREAD.MUS	(1) Source music score
(Interesting, New Orleans jazz)			
39.47	2K	STARWARS.MUS	(1) Source music score
39.48	2K	TINSOLD.MUS	(1) Source music (a start...)
39.49	2K	WALK.MUS	(1) Source music score
(Terriffikk)			
39.50	1K	WAVES.MUS	(2) Source music score
39.51	3K	WHATI.MUS	(1) Source music score
39.52	3K	WIIRD.MUS	(1) Source music score
39.53	2K	YANKEE.MUS	(1) Source music score (good!)

VOLUME 40            Various utilities, disk cataloging system, modem programs.

40.1	1K	/.COM	Quickie submit;
Example:			
40.2	1K	/.DOC	/ asm foo.bbz;load b:foo
40.3	1K	ALLOC.COM	Prints bit map of disk usage..
40.4	1K	ALLOC.DOC	..(update of prev 1.3 only one)
40.5	37K	BOOTER.ASM	Pascal boot for Tarbell & Delta
40.6	1K	CAT.COM	Part of master cataloging sys.

40.7	1K	CAT2.COM	Part of master
cataloging sys.			
40.8	5K	CATALOG.DOC	Doc on master
cataloging system			
40.9	1K	CK-FIX.COM	File checksum
program			
40.10	1K	CK-FIX.DOC	DOC on above
40.11	4K	COMPARE.ASM	See if two files
match exactly			
40.12	2K	COMPARE.COM	COM of above 'cause
many macros			
40.13	8K	CV.ASM	Split screen VDM 2
file compare			
40.14	1K	CV.COM	..(requires MAC for
assembly)			
40.15	1K	CV.DOC	DOC on above
40.16	1K	D.COM	Shows what files are
different			
40.17	1K	D.DOC	..on a disk from
some prev time			
40.18	14K	DI.ASM	Directory listing
program.Needs MACRO.LIB			
40.19	2K	DI.COM	COM of above
40.20	26K	DU.ASM	Disk utility: scan,
patch, etc.			
40.21	4K	DU.COM	COM of above.
40.22	1K	DU.DOC	DOC of above
40.23	1K	EJECT.ASM	"EJECT n" pages on
CPM list dev			
40.24	1K	FMAP.COM	File map
(standalone, and part			
40.25	1K	FMAP.DOC	of
cataloging system)			
40.26	9K	HEXDUMP.ASM	Binary to Hex
(RequiresTDL asm)			
40.27	1K	MAST.CAT	Sample master
catalog			
40.28	40K	MODEM4.ASM	Checksummed blocked

file xfer			
40.29	7K	MODEM4.DOC	DOC on above.
PMMI/Hayes/serl			
40.30	3K	NSBOOT.ASM	Boot for National
Semi 8221			
40.31	12K	NSCBIOS.ASM	CBIOS for National
Semi 8221			
40.32	3K	PBOOT.ASM	Pascal boot loader
for Tarbell			
40.33	5K	PGEN.ASM	Boot mods for 512
long sectors			
40.34	17K	PMMIBYE3.ASM	Dial in remote
console prog.			
40.35	7K	SPASCAL.DOC	Sam Singer's PASCAL
mods			
40.36	2K	UCAT.COM	Update catalog
program			
40.37	3K	VDMSAVE.ASM	Write VDM lines to a
file			

VOLUME 41 (1) Ham radio programs, (2) Chess  
program, (3) VDM Pong program  
(4) Fortran least squares curve  
fitting program

41.1	12K	BMAINT.BAS	(1) Ham maillist
maint. BASIC/E			
41.2	12K	BREPORT.BAS	(1) Ham maillist
report			
41.3	26K	CHESS.COM	(2) COM of 41.5
41.4	2K	CHESS.DOC	(2) DOC on chess
program			
41.5	24K	CHESS.FOR	(2) Cromemco Z-80
Fortran Chess			
41.6	2K	CODE.BAS	(1) Simple Morse
code receiver			
41.7	3K	HAMPROGS.DOC	(1) Doc on BMAINT,
BREPORT, RTTY, etc.			

41.8	2K	LABELS.BAS	(1)	Print return labels
41.9	6K	MOONLOC.DOC	(1)	Doc on
41.10-41.13		which		
41.10	3K	MOONLOC1.BAS		are various
versions of				
41.11	3K	MOONLOC2.BAS		programs to
locate the				
41.12	7K	MOONLOC3.BAS		moon's position
to do				
41.13	5K	MOONLOC5.BAS		moon bounces
41.14	8K	MORSE.ASM	(1)	Morse
send/receive prog.				
41.15	7K	PONG.ASM	(3)	PONG for the VDM
(re-release of CPMUG 6.9)				
41.16	8K	PRACTICE.ASM	(1)	Morse code
teacher				
41.17	2K	RANDTEXT.BAS	(1)	Generate text
for 41.16				
41.18	2K	RESIZE.DOC	(1)	Part of ham
maillist system				
41.19	5K	RESIZE2.BAS	(1)	Part of ham
maillist system				
41.20	5K	RESIZE3.BAS	(1)	Part of ham
maillist system				
41.21	26K	RTTY.ASM	(1)	RTTY send
receive program				
41.22	12K	SSPLIB.FOR	(4)	Curve
fitter/simultaneous linear solver.				
41.23	10K	TEACH.ASM	(1)	Morse Code
teaching prog.				
41.24	9K	TTY.ASM	(1)	
Baudot-coded-ASCII to ASCII				
41.25	5K	TTYR.ASM	(1)	Variation of
41.24				
41.26	5K	TTYR1.ASM	(1)	Variation of
41.24				
41.27	5K	TTYX.ASM	(1)	Xmit ASCII -

conversion Baudot--->ASCII

VOLUME 42 (1) Disassemblers, (2) Diablo  
Driver, (3) Clock routines

42.1	9K	BIDI.ASM	(2) Bidirect. diablo driver
42.2	3K	CLKROM.ASM	(3) Computime(R) routines
42.3	1K	CT82.COM	SWTPC CT82 initializer
42.4	6K	CT82.Z80	TDL Z-80 source for above
42.5	44K	DIS.ASM	(1) TDL Z-80 Disassembler
42.6	5K	DIS.DOC	(1) Doc on above
42.7	3K	HOW2BS.DOC	Put backspace into your BIOS
42.8	2K	INIT.TEL	ZTEL-CT82 routines
42.9	17K	LIFE8.ASM	Fast, comprehensive life..
42.10	3K	LIFE8.COM	..program for the VDM
42.11	2K	LIFE8.DOC	Doc on above
42.12	27K	MNEMONIC.ASM	Memory test (look up MNEMONIC your dictionary)
42.13	7K	NBIOS.ASM	BIOS for TEI CP/M
42.14	4K	PTSRCNVT.ASM	Proc. Tech. Pkg. 1 or ALS-8..
42.15	2K	PTSRCNVT.COM	..to CP/M file conversion..
42.16	2K	PTSRCNVT.DOC	..program
42.17	13K	QUOTES.PRN	Words of wit and wisdom related to computers.
42.18	6K	RESOURCE.COM	(1) Conversational disassembler
42.19	26K	RESOURCE.DOC	(1) Doc on above
42.20	5K	START.ASM	Compucolor 8001

initializer  
 42.21 1K START.COM COM of above  
 42.22 2K T.ASM (3) Print time on  
 the  
 42.23 1K T.COM ..console  
 42.24 3K TIME.ASM (3) Compu-time (R)  
 routine  
 42.25 2K TIME.BAS (3) Time display in  
 MBASIC  
 42.26 5K TIMESET.BAS (3) Time set/read in  
 MBASIC  
 42.27 25K XT.ASM (3) List to printer  
 with..  
 42.28 2K XT.COM ..time/date  
 stamp  
 42.29 1K XYZZY.COM for "Adventure"  
 fans

VOLUME 43 DESCRIPTION: OSBORNE CBASIC2  
 ACCOUNTS PAYABLE AND  
 ACCOUNTS RECEIVABLE BUSINESS  
 SOFTWARE PROGRAMS.

VOLUME 44 DESCRIPTION: CBASIC2 PROGRAMS  
 Osborne/McGraw-Hill General Ledger  
 Programs.

44.42 3K ROBO.BAS Cunningham Math  
 Game.  
 44.46 0K TCGWOZ.TXT Collected Great  
 Works of Zoso \*

VOLUME 45 DESCRIPTION: Osborne/McGraw-Hill  
 Payroll  
 with Cost Accounting

VOLUME 46 CP/M utilities.

46.2	11K	CPM-FDOS.ASM	CPM to ICOM FDOS II
transfer			
46.3	17K	CPMLABEL.BAS	Make CPMUG disk
labels			
46.5	5K	CPMLABEL.DOC	DOC on above
46.6	8K	CRCK3.ASM	Full 16 bit CRC a
file			
46.7	1K	CRCK3.COM	COM of above
46.8	16K	DU-8/12.ASM	Disk dump/patch,
supports many controllers.			
46.9	29K	DU-V61.ASM	version of CPMUG
40.20, single density only			
46.10	2K	DU/MAP.DOC	Doc. on CP/M
directory format			
46.11	6K	FDOS-CPM.ASM	ICOM FDOS II to CP/M
transfer			
46.12	10K	MDIR8/17.ASM	Fancy directory list
program,			
46.13	1K	MDIR8/17.COM	CP/M 1.4 (or 2.X,
all users)			
46.14	6K	MLIST3.ASM	Type multiple files
with lots of disk buffering			
46.15	20K	PLINK823.ASM	Send/Rcv to memory
via modem			
46.16	22K	PMMIBYE5.ASM	Remote console
program,			
46.17	3K	PMMIBYE5.DOC	update of
40.34			
46.18	2K	PTSRCNVT.COM	Convert Proc. Tech
to CP/M ASM			
46.19	2K	PTSRCNVT.DOC	DOC on above
46.20	7K	RETDL.COM	Disassembler to TDL
mnemonics, see 42.18			
46.21	13K	SURVEY3.ASM	Maps system
memory/port usage and disk stat.			
46.22	1K	SURVEY3.COM	COM of above
46.23	20K	XD-7/4.ASM	Fancy directory list

program			
46.24	2K	XD-7/4.COM	COM of above
VOLUME 47 CP/M Utility Disk. *			
47.1	7K	ABSTRACT.047	Abstracts and reviews.
47.2	10K	BMAP7/11.ASM	Bit Map program.
47.3	22K	COPYFAST.ASM	Revision of Tarbell's COPY.ASM.
47.4	2K	COPYFAST.COM	COM of above.
47.5	18K	CYBER.ASM	Bob Van Valzah's Modem program
47.6	22K	DIAL6/23.ASM	Modem program with autodial for PMMI.
47.7	2K	DIAL6/23.DOC	DOC of above.
47.8	8K	DIRS9/8.ASM	Sorted directory program.
47.9	3K	FLIP3.ASM	Flips Answer/Originate mode under BYE.COM.
47.10	14K	MODEM.LIB	Maclib library for MODEM7.
47.11	43K	MODEM7.ASM	Latest and greatest revision MODEM.ASM.
47.12	8K	MODEM7.COM	COM of above.
47.13	16K	MODEM7.DOC	DOC of above.
47.14	3K	MODEM7.SET	Instructions for patching COM file
47.15	13K	PROM.ASM	Promburner program for the SSM PB1.
47.16	7K	UCOPY.ASM	Tarbell COPY program.
VOLUME 48 The BDS C Sampler Disk			
48.1	17K	BDS-C.DOC	BDS-C users manual (*)
48.2	7K	BDSCIO.H	The standard library



used to compile the pgms			
48.3	8K	BUGS.C	<H> makes things
crawl			
48.4	11K	BUGS.COM	around on
your screen			
48.5	9K	HLIFE.C	<H> H19/H89 version
of 48.9			
48.6	8K	HLIFE.COM	<H> " "
".10			
48.7	13K	HSTONE.C	<H> "Awari" game
program -			
48.8	12K	HSTONE.COM	" "
48.9	9K	LIFE.C	Good implementation
of Conway's			
48.10	8K	LIFE.COM	LIFE
algorithm			
48.11	5K	MM.C	Mastermind
interesting guessing			
48.12	7K	MM.COM	game. Try
it and see			
48.13	11K	OTHELLO.C	Game program
48.14	12K	OTHELLO.COM	" "
48.15	7K	PPONG.C	<H> "Polish Pong"
bounce the			
48.16	7K	PPONG.COM	ball off "/"
and "\"			
48.17	8K	PRESSUP.C	Game program
48.18	8K	PRESSUP.COM	" "
48.19	1K	R2.MAP	<H> map for rally
game			
48.20	10K	RALLY.C	<H> road rally
arcade game			
48.21	10K	RALLY.COM	<H> .COM of 48.20,
but...			
48.22	2K	RALLY.MAP	<H> another map for
48.21			
48.23	10K	STONE.C	"Awari" game with
"very smart			

48.24	9K	STONE.COM	computer"
opponent			
48.25	2K	TABIFY.C	Turn multiple spaces
into			
48.26	6K	TABIFY.COM	proper CP/M
tabs			
48.27	7K	TTT.C	Tic-Tac-Toe that
"exhaustively"			
48.28	6K	TTT.COM	tests for
best move			

Volume 49            FORTRAN, RATIONAL FORTRAN PROGRAMS,  
 CDOS ROUTINES FOR CP/M.

49.1	4K	4FDCBIOS.DOC	Files for running
CP/M 2.0+			
49.2	2K	4FDCBIOS.HEX	
49.3	13K	4FDCBIOS.Z80	on CDOS systems
using this			
49.4	1K	4FDCBOOT.HEX	
49.5	2K	4FDCBOOT.Z80	BIOS and BOOT.
49.6	11K	ABSTRACT.049	Abstracts of the
files on this disk.			
49.7	1K	ASMDEF.RAT	Used by LCAT, part
of RATFOR.			
49.8	6K	ASTRO.FOR	FORTRAN Astronomy
program.			
49.9	10K	CDOS.DOC	Comments on CDOS
features.			
49.10	2K	CDOSCOPY.COM	Full disk copy
program			
49.11	2K	CDOSCOPY.DOC	for CDOS systems,
49.12	4K	CDOSCOPY.HEX	single or double
49.13	26K	CDOSCOPY.PRN	density, and
single			
49.14	12K	CDOSCOPY.Z80	or double sided.
49.15	1K	CONSTS.RAT	Definitions of some
frequently RATFOR Constants			

49.16	1K	F77.DOC	FORTRAN 77
Documentation.			
49.17	1K	F77DEF.RAT	FORTRAN 77
Functions.			
49.18	2K	F77LIB.FOR	Definitions of some
intrinsic FORTRAN 77			
49.19	3K	FILTER.Z80	Source code for
emulating CDOS			
49.20	1K	FILTER.HEX	calls under
standard CP/M.			
49.21	6K	FILTER2.Z80	Modified version of
FILTER			
49.22	1K	FILTER2.HEX	(above)
49.23	2K	INDEX.Z80	RATFOR Subroutine.
49.24	1K	INDEXT.FOR	Test for INDEX.Z80.
49.25	1K	IOER.Z80	Used by LCAT
(RATFOR).			
49.26	1K	LCAT.DOC	Used to concatenate
Microsoft			
49.27	3K	LCAT.RAT	.REL files.
49.28	2K	MINV.DOC	Matrix Inversion
Determinant			
49.29	3K	MINV.FOR	Calculator,
FORTRAN and			
49.30	3K	MINV.RAT	RATFOR source
code.			
49.31	2K	RATCOMNS.RAT	Used by RATFOR.
49.32	3K	RATFOR.DOC	Documentation of
RATFOR.			
49.33	40K	RATFOR.FOR	FORTRAN source code
for RATFOR.			
49.34	25K	RATFOR.RAT	RATFOR source code
for RATFOR.			
49.35	17K	RATFOR.REL	Microsoft .REL file
49.36	1K	READLB.Z80	Subroutine for SCOPY
(RATFOR).			
49.37	1K	RFG.CMD	CDOS equivalent of a
submit file. (^=\$).			

49.38	1K	SCOPY.DOC	Direct Disk I/O
(RATFOR).			
49.39	2K	SCOPY.FOR	FORTRAN source
code.			
49.40	1K	SORTI.DOC	Quicksort program
(RATFOR).			
49.41	2K	SORTI.FOR	FORTRAN Source
code.			
49.42	3K	SORTI.RAT	RATFOR Source
code.			
49.43	1K	TRNSLT.Z80	Used by RATFOR.

VOLUME 50                    Bob Van Valzah's "Pascal Pascal  
 Compiler"  
 and SPEED for CP/M 2.2 & a few  
 miscellaneous                programs for printing via UNIX.

50.1	1K	A.OCO	Sample program,
eight queens problem			
50.2	1K	A.PCO	Sample program
P-code, ready for PFET.COM			
50.3	5K	ABSTRACT.050	Abstracts for this
volume.			
50.4	2K	COMPARE.COM	Vital program for
compiler writers.			
50.5	2K	CPMDIR.C	Prints CP/M DIR on
UNIX.			
50.6	2K	CRCK.COM	CRC program for
validating files on this disk.			
50.7	2K	CRCKLIST.CRC	CRC list of files on
this disk.			
50.8	3K	DISK.DOC	Bob's comments.
50.9	1K	DMSPATCH.ASM	For use with SPEED.
50.10	1K	DSCUSPAT.ASM	For use with SPEED.
50.11	3K	EQ.COM	Prints all solutions
to the			

50.12	2K	EQ.PAS	eight queens problem.
50.13	18K	FMAN.PRN	FAST users manual (for SPEED).
50.14	5K	FROMCPM.C	Print CP/M file via UNIX stdout.
50.15	1K	FWD.PAS	Forward Procedure Declarations.
50.16	6K	HW5.COM	Builds optimal binary search
50.17	15K	HW5.PAS	tree & decodes a message.
50.18	1K	HW5DATA.	Sample data for above program.
50.19	1K	MICROPAT.ASM	For use with SPEED.
50.20	6K	PASYNTEX.DOC	Syntax graphs for PPC compiler.
50.21	1K	PC.SUB	Submit file to compile a PPC program.
50.22	7K	PFET.COM	Object code of Pcode to 8080 translator.
50.23	11K	PFET.PAS	Source of above.
50.24	1K	PHONE.C	spelling aid
50.25	1K	PLAYDATA.	Sample data for above program.
50.26	13K	PLAYKAL.PAS	determine best moves in game of Kalah.
50.27	2K	POPS.DOC	DOC for Pcodes used by PPC.
50.28	1K	POWTWO.PAS	PPC Program to print negative powers of two.
50.29	16K	PPC.COM	Pascal Pascal Compiler.
50.30	10K	PPC.DOC	DOC for above file.
50.31	26K	PPC.PAS	Pascal source for above file.
50.32	2K	PSTACK.DOC	DOC on run-time

P-machine stack.

50.33	3K	REGEN.DOC	Notes on how to
modify & compile PPC.PAS.			
50.34	3K	RSPEED.ASM	For use with SPEED.
50.35	1K	RSPEED.COM	For use with SPEED.
50.36	11K	RTP.ASM	Source for run-time
package.			
50.37	2K	RTP.COM	Object of above.
50.38	1K	SKEW2PAT.ASM	For use with SPEED.
50.39	1K	SKEW3PAT.ASM	For use with SPEED.
50.40	2K	SMAN.PRN	SPEED users manual.
50.41	5K	SPEED.COM	SPEED for CP/M 1.4
50.42	5K	SPEED2.COM	SPEED for CP/M 2.2
50.43	1K	STIRLING.PAS	Prints a table of
Stirling Numbers.			
50.44	4K	TESTER.PAS	Tests functionality
of PPC.			
50.45	1K	VALIDATE.SUB	Submit file

VOLUME 50                   STAGE2 MACRO PROCESSOR

51.1	2K	ABSTRACT.051	Overview of volume
51.2	16K	ALX.S2M	Assembly Language
Extension macros			
51.3	3K	ALX-.DOC	Doc on above
51.4	3K	ALXTEST.ALX	Sample macros to
test above			
51.5	4K	CIO.ALX	Console I/O routines
in ALX			
51.6	2K	CRCK.COM	Keith Petersen's
program to CRC check files			
51.7	1K	CRCKLIST.CRC	Contains the CRCs
for all files			
51.8	2K	DEMO.S2M	Interactive STAGE2
demo macros.			
51.9	17K	DISKIO2.SRC	(*) disk I/O for
STAGE2 processor			
51.10	6K	DISKIO2-.DOC	(*) DOC on above

51.11	5K	FLD1.DAT	(*) Sample data for
FLUB test			
51.12	4K	FLD2.DAT	(*) "
51.13	13K	FLT1.FLB	(*) Sample program
for FLUB test			
51.14	11K	FLT2.FLB	(*) "
51.15	1K	FLUB\$.SUB	(*) Submit file for
FLT1, FLT2, STG2.			
51.16	4K	FLUB8080.S2M	(*) Macros to turn
FLUB into 8080 asm			
51.17	3K	HELP.DOC	First-timer's "to
do" list.			
51.18	2K	IMPL.DOC	(*) Notes on
implementing STAGE2			
51.19	2K	INTERACT.S2M	Another macro demo.
51.20	22K	INTRO.DOC	Sufficient info to
"read" STAGE2 macros,			
51.22	1K	IOOP\$.SUB	(*) submit file for
macro pass + asm of above			
51.21	16K	IOOP.SRC	(*) I/O processor
8080 source			
51.23	1K	MEMORY.INP	Another macro demo.
51.24	2K	ST2T.DAT	(*)
51.25	12K	STAGE2.COM	The executable macro
processor itself.			
51.26	48K	STG2.FLB	(*) Source for
STAGE2 in FLUB code			
51.27	5K	STG2MATH.ASM	(*) STAGE2 support
routines			
51.28	5K	STG2SUP.ASM	(*) "
51.29	8K	TERM.ALX	Sample 8080 terminal
program w/ALX macros.			
51.30	3K	TERMSUP.ASM	Subroutines for
TERM.ALX			
51.31	2K	USE.DOC	How to execute
STAGE2.			
51.32	6K	VDB.ALX	TDL video driver in
ALX, a "state machine".			

51.33 5K VOLUME51.DOC Dick Curtiss' own excellent documentation.

Volume 52  
Weingart

COPYFAST Version 3.5 by Chuck

BATCH/VARBATCH by Daniel Ross

52.1	12K	BATCH.1	SIL80 source for BATCH.
52.2	10K	BATCH.3	SIL80 source for BATCH.
52.3	2K	BATCH.COM	Object file of above.
52.4	1K	BATCH.CTL	Control table for batch.
52.5	5K	BATCH.HEX	Hex file of above code.
52.6	35K	BATCH.RM	Batch Reference Manual (.DOC).
52.7	21K	BATCH.SYM	Batch Symbol Table.
52.8	2K	CPYFST35.ABS	Chuck's comments on Copyfast.
52.9	26K	CPYFST35.ASM	Source code for COPYFAST.
52.10	28K	CPYFST35.DOC	Documentation for COPYFAST.
52.11	2K	CPYFST3F.COM	Object of above, fast disks.
52.12	2K	CPYFST3M.COM	Object of above, medium disks.
52.13	2K	CPYFST3S.COM	Object of above, slow disks.
52.14	1K	CRCKLIST.CRC	CRC list of programs on this disk.
52.15	2K	EXAMPLE.BAT	Sample BATCH file.
52.16	23K	VARBATCH.1	SIL80 source for VARBATCH.(BATCH w/variables).



52.17	10K	VARBATCH.3	SIL80 source for VARBATCH.
52.18	3K	VARBATCH.COM	Object of above.
52.19	1K	VARBATCH.CTL	Control table of above.
52.20	7K	VARBATCH.HEX	Hex file of above.
52.21	29K	VARBATCH.SYM	Symbol table of above.

VOLUME 053            BDS-C Users group "original"  
Adventure disk.

VOLUME 54            Xitan Disk Basic:

54.1	3K	1CHECK.BAS	Solitaire checker puzzle.
54.2	2K	ALFABET2.BAS	Interactive alphabetizing
54.3	1K	ALFABETI.BAS	Original bugged version.
54.4	2K	ARITH.BAS	Simple addition and subtraction
54.5	4K	BIOCAL.BAS	Biorythmic calendar (Bugs).
54.6	8K	BLKJAC.BAS	Blackjack (21) game.
54.7	3K	BOMBER.BAS	WW2 Bomber game.
54.8	2K	BOUNCE.BAS	Plots a bouncing ball.
54.9	7K	BUG.BAS	"Draw Bugs faster than your computer" game.
54.10	2K	BULCOW.BAS	Buggy program, number guessing game.
54.11	7K	BUNNY.BAS	Draws a "bunny" on your CRT.
54.12	3K	BUZZWD.BAS	Selects a list of "buzzwords".
54.13	4K	CHASE.BAS	High Voltage survival game.

54.14	6K	CHASE2.BAS	Construct and maneuver in a maze.
54.15	3K	CHOMP.BAS	Eat pieces of a cookie, last piece loses (NIM?).
54.16	3K	CRAPS.BAS	Standard Nevada table rules.
54.17	5K	CUBE.BAS	Get thru the cube & win a bet.
54.18	3K	DEFUSE.BAS	Find and defuse the bomb before...
54.19	1K	DIAMND.BAS	Fills screen with diamond shapes that spell DEC
54.20	3K	DRAW.BAS	Buggy program -- see abstract.
54.21	2K	DRINKS.BAS	"How to mix drinks", see abstract.
54.22	3K	FISHING.BAS	Catch fish in a lake, avoid hazards,
54.23	9K	FOOTBL.BAS	Standard professional rules, except no penalties
54.24	2K	FRACT.BAS	Fraction mathematics.
54.25	1K	GRAFIT.BAS	Some kind of student plotting program.
54.26	2K	GUNNER.BAS	Fire a field artillery weapon, bugs.
54.27	6K	HOCKEY.BAS	For hockey fans.
54.28	4K	HORSES.BAS	Place your bets on the horse races.
54.29	1K	INTEREST.BAS	Calculates simple and compund interest.
54.30	10K	KING.BAS	Land & Resources Management game.
54.31	2K	LITQZ.BAS	CAI: Literature quiz.
54.32	2K	MATH.BAS	See abstract for bugs.
54.33	2K	MUGWMP.BAS	Triangulation game.

54.34	3K	PICTUR.BAS	Draws your name and picture???
54.35	2K	POET.BAS	Random verse ala Edgar Allen Poe.
54.36	8K	POKER.BAS	Draw Poker.
54.37	1K	PRIME.BAS	Calculates prime numbers
54.39	7K	QUBIC.BAS	3D Tic Tac Toe in a 4x4x4 cube, bugs.
54.40	3K	REVRSE.BAS	Arrange a list of numbers via reversals.
54.41	4K	ROCKET.BAS	Lunar Lander.
54.42	3K	ROCKT1.BAS	Lunar Lander.
54.43	4K	SNOOPY.BAS	Draws a "Snoopy" on your CRT or printer.
54.44	3K	SPORTS.BAS	CAI: Multiple choice questions about sports.
54.45	2K	STARS.BAS	Number guessing game.
54.46	8K	STOCK.BAS	Stock Market Simulation Game.
54.47	2K	TAKEAWAY.BAS	Remove asterisks from a collection ( "CHOMP" )
54.48	5K	TDRILL.BAS	Typing drill program.
54.49	4K	TENNIS.BAS	CAI: Multiple choice questions about...
54.50	2K	TEXT.BAS	Intro to some programs on this disk.
54.51	5K	TICTAC.BAS	9x9 grid tic tac toe.
54.52	2K	TRAP.BAS	"Guess the mystery number"
54.53	3K	TTTOE.BAS	Standard tic tac toe with bugs.
54.54	3K	TVPLOT.BAS	Humorous TV plots.
54.55	1K	TYPING.BAS	Typing drill with bugs.

54.56 4K WEKDAY.BAS Day of week that you  
were born.  
54.57 3K WISHES.BAS Silly wish poems for  
kids.

Volume 55 SIG/M Volume 001  
Volume 56 SIG/M Volume 002  
Volume 57 SIG/M Volume 011  
Volume 58 SIG/M Volume 004  
Volume 59 SIG/M Volume 005  
Volume 60 SIG/M Volume 006  
Volume 61 SIG/M Volume 007  
Volume 62 SIG/M Volume 008  
Volume 63 SIG/M Volume 009  
Volume 64 SIG/M Volume 010  
Volume 65 SIG/M Volume 013  
Volume 66 SIG/M Volume 014  
Volume 67 SIG/M Volume 015  
Volume 68 SIG/M Volume 016  
Volume 69 SIG/M Volume 017  
Volume 70 SIG/M Volume 018  
Volume 71 SIG/M Volume 019/Pascal Z Users  
Group 001  
Volume 72 SIG/M Volume 020/Pascal Z Users  
Group 002  
Volume 73 SIG/M Volume 021/Pascal Z Users  
Group 003  
Volume 74 SIG/M Volume 022/Pascal Z Users  
Group 004  
Volume 75 SIG/M Volume 023/Pascal Z Users  
Group 005  
Volume 76 SIG/M Volume 024/Pascal Z Users  
Group 006  
Volume 77 SIG/M Volume 025/Pascal Z Users  
Group 007  
  
Volume 78 Utility disk.

078.1	4K	/.ASM	Quickie SUBMIT from command
078.2	1K	/.COM	line.
078.3	1K	/DUP.COM	Same as /.ASM but produces a second copy
078.4	10K	BMAPORIG.ASM	Prints 2.2 disk allocation
078.5	1K	BMAPORIG.COM	bit map
078.6	2K	CRCK.COM	to check files on this disk
078.7	2K	CRCKLIST.078	File of all file CRC's
078.8	3K	D.COM	Type D to see if any files lost
078.9	10K	DUH.COM	Disk Utility for the H/Z-89
078.10	3K	DUH.Z80	Source for DU relocator
078.11	51K	DUU.ASM	Disk Utility Universal, works
078.12	7K	DUU.COM	with 1.4 and 2.2
078.13	14K	DUU.DOC	DOC on above
078.14	8K	EPROM.ASM	SSM PB1 PROM prog. rtn.
078.15	2K	EPROM.DOC	DOC on above
078.16	4K	FMAP.COM	File map updated
078.17	1K	IF.COM	Continue or abort a SUBMIT
078.18	2K	LPRINT.ASM	Paginated file output to LIST
078.19	12K	MAKE.ASM	Make a file a different user #
078.20	3K	NOTATE.ASM	Add comments to an .ASM file
078.21	1K	NOTATE.COM	.COM of above
078.22	3K	PATCH.ASM	Patch CP/M to show user: "A0>"
078.23	1K	REPEAT.COM	Repeat a SUBMIT "nn"

times.  
078.24 10K SDCOPY.ASM Single-disk file  
copy program  
078.25 1K SDCOPY.COM "  
078.26 3K SDCOPY.DOC "  
078.27 14K SWAPCOPY.ASM Another single disk  
file copy  
078.28 2K SWAPCOPY.COM program  
078.29 3K SWAPCOPY.DOC "  
078.30 1K TestProt.BAS Sample to test  
UN.COM  
078.31 5K UN.COM Unprotect MBASIC  
programs  
078.32 23K XREFPRN.ASM Prints a  
cross-reference from  
078.33 3K XREFPRN.COM a PRN file to CP/M  
LIST device

VOLUME 079 MODEM programs for PMMI, SMARTMODEM,  
Serial I/O.

079.1 16K MODEM7.DOC Documentation for  
MODEM 7 and higher.  
079.2 14K MODEM7.LIB MACLIB file for use  
with MODEM741.ASM.  
079.3 66K MODEM741.ASM Assembler source for  
MODEM version 7.41.  
079.4 10K MODEM741.COM Object code of above  
program.  
079.5 4K MODEM741.SET Patching  
instructions for MODEM741.COM.  
079.6 1K MODEM7X.BUG Bug report.  
079.7 85K SMODEM37.ASM Assembler source for  
SMODEM version 3.7  
079.8 26K SMODEM37.DOC Documentation for  
the above program.

VOLUME 80 Cromemco Structured Basic programs

80.1	2K	BACKUP.STB	Part of mail list
system			
80.2	6K	CEDIT.STB	Part of spelling
program			
80.3	2K	CHECK.DAT	Part of spelling
program			
80.4	8K	CONV-ASC.STB	Convert MBASIC to
Cromemco			
80.5	6K	CONV-BAS.STB	structured
BASIC			
80.6	2K	DATE.STB	Part of mail list
system			
80.7	10K	DEDIT.STB	Part of spelling
program			
80.8	2K	DICTION.DAT	Part of spelling
program			
80.9	12K	GRADER.STB	Text evaluation
program			
80.10	4K	MMENU.STB	Part of mail list
system			
80.11	2K	PRN-TEST.STB	Printer test program
80.12	10K	REC-EDIT.STB	Part of mail list
system			
80.13	8K	REC-PRN.STB	Part of mail list
system			
80.14	2K	SMENU.STB	Part of spelling
program			
80.15	8K	SORTS.STB	Sort routines
80.16	2K	SPEAR.STB	Statistics program
80.17	6K	SPELL.STB	Part of spelling
program			
80.18	10K	STAT.STB	Statistics program
80.19	20K	TRADE.STB	Game prog with no
GOTOs!			
80.20	4K	TRANSFER.STB	Part of spelling
program			
80.21	24K	TREK.STB	Yes, Startrek

80.22	16K	TRK-HELP.STB	More Startrek stuff
80.23	6K	UTILITY.STB	"Unnum" and renum
BASIC progs			
80.24	40K	WORDLIST.TXT	Part of spelling
program			
80.25	2K	X2.STB	Statistics program
80.26	2K	ZIPSORT.STB	Part of mail list
system			

VOLUME 81 CP/M Utility disk. Submit  
replacement, editor, text processor,  
hard disk backup utility, etc.

81.1	10K	AUTOLOAD.COM	Write initial CP/M
command into			
81.2	3K	AUTOLOAD.DOC	CCP on disk.
81.3	28K	BACKUP.ASM	Back up hard disk to
multiple			
81.4	7K	BACKUP.DOC	floppy disks
81.5	7K	BAUDSET.ASM	Set baudrate for
81.6	2K	BAUDSET.DOC	serial board
81.7	25K	EDITM.ASM	Update of CPMUG
volume 16			
81.8	3K	EDITM.COM	editor, with
new			
81.9	4K	EDITM.DOC	features.
81.10	16K	FLOPCOPY.ASM	Copy floppy via hard
disk when			
81.11	2K	FLOPCOPY.DOC	only 1
floppy drive			
81.12	42K	POW2.ASM	"Processor of Words"
- text			
81.13	5K	POW2.COM	processing
prog.			
81.14	4K	POW2.DOC	" "
81.15	23K	POW2.MAN	Manual on above
81.16	2K	POW2.TST	Test document
81.17	22K	SUPERSUB.ASM	Super submit



program, allowing

81.18 3K SUPERSUB.COM nested

submits,

81.19 15K SUPERSUB.DOC etc.

VOLUME 082 North Star BIOS routines by Steve Bogolub.

82.1 53K MBIOS56.ASM Bios with PMMI MODEM

drivers

82.2 55K NBIOS56.ASM North Star BIOS

82.3 16K NSBIOS.DOC DOC on above

82.4 35K NSCOPY.ASM Disk format and copy

program

82.5 12K NSGEN.ASM Sysgen program

82.6 21K SDNBIOS.ASM Single density N\*

BIOS

82.7 2K SDNBOOT.ASM Single density N\*

BOOT

82.8 11K SDNSGEN.ASM Single density N\*

SYSGEN

82.9 8K SDNUSER.ASM Single density N\*

user area

VOLUME 83 Extensions for commercial languages:

1. MuMath/MuSimp enhancements

(Gerald A. Edgar)

2. CBASIC complex math routines

(E.R. Le Clear)

3. CP/M functions for Fortran-80

(William R. Brandoni)

83.1 6K ARITH%.MUS muMATH arithmetic

83.2 2K ATRG.TRG muMATH inverse trig

functions

83.3 1K INT%.DIF muMATH integrals

83.4 1K LIM%.DIF muMATH limits

83.5 1K LOG%.ALG muMATH logarithms

83.6	12K	MUMATH%.DOC	explanations of the
files			
83.7	10K	SERIES%.DIF	muMATH infinite
series			
83.8	5K	SOLVE4%.EQN	muMATH solution of
equations			
83.9	3K	TRGNEG%.ALG	muMATH trigonometric
functions			
83.10	11K	APPENDIX.DOC	Appendix to
CMATH/DOC. matrix math, etc.			
83.11	13K	CMATH.DOC	Documentation for
other complex math files			
83.12	12K	COMCALC.BAS	Source code for
"calculator" mode complex			
83.13	5K	COMCALC.INT	Compiled COMCALC/BAS
83.14	6K	COMDISK.DOC	DOC for complex
subroutines XXXXXX.SRT			
83.15	1K	DIVCOM.SRT	Divide two complex
quantities			
83.16	8K	LPFILTAN.BAS	Source code for
multipole filter analysis			
83.17	4K	LPFILTAN.INT	Compiled
LPFILTAN.BAS			
83.18	1K	MPYCOM.SRT	Multiply two complex
quantities			
83.19	1K	MTXMPY.SRT	Matrix
multiplication			
83.20	1K	PAR/SER.SRT	Parallel to serial
impedance convert			
83.21	1K	POL/REC.SRT	Complex polar to
rectangular convert			
83.22	1K	REC/POL.SRT	Complex rectangular
to polar convert			
83.23	1K	REFC/Z.SRT	Reflection
coefficient to Z conv			
83.24	1K	SER/PAR.SRT	Serial to parallel
impedance convert			
83.25	2K	SMATX.SRT	convert S matrix to

X matrix			
83.26	2K	XMATS.SRT	Convert X matrix to
S matrix			
83.27	2K	YZZY.SRT	convert Y to Z or Z
to Y matrix			
83.28	1K	Z/REFC.SRT	Z to reflection
coefficient convert			
83.29	1K	ZXXZ.SRT	Convert Z to X or X
to Z matrix			
83.30	3K	CONTENT.DSK	Brief description of
disk contents.			
83.31	12K	CPMFN.MAC	Microsoft M80 source
for part of CPMLIB.			
83.32	1K	CPMFN.REL	Assembled version of
CPMFN.MAC			
83.33	3K	CPMFNA.MAC	Microsoft M80 source
for part of CPMLIB.			
83.34	1K	CPMFNA.REL	Assembled version of
CPMFNA.MAC			
83.35	30K	CPMINT.FOR	Microsoft F80 source
for part of CPMLIB.			
83.36	5K	CPMINT.REL	Compiled version of
CPMINT.FOR			
83.37	17K	CPMLIB.DOC	Documentation on the
use of CPMLIB.			
83.38	4K	CPMLIB.MOD	Documentation on
methods to modify or add			
83.39	6K	CPMLIB.REL	Interface library
83.40	5K	TEST.FOR	FORTRAN source for
program to test library.			

VOLUME 084            MODEM version 7.65, RCPMLIST version 25A, XMODEM version 5.0

084.1	16K	MODEM7.DOC	Documentation for
MODEM program [		CPMUG 79]	
084.2	14K	MODEM76.LIB	Macro library used
with MODEM 7.65			

084.3	6K	MODEM76.SET	Instructions for
"hot-patching" MODEM			
084.4	63K	MODEM765.ASM	Macro assembler
source code for MODEM 7.65			
084.5	10K	MODEM765.COM	Object code of MODEM
7.65			
084.6	27K	RCPMLIST.25A	List of RCPM systems
using XMODEM.			
084.7	18K	SEQIO22.LIB	Macro library used
with XMODEM 5.0			
084.8	3K	XMODEM47.DOC	Documentation for
XMODEM program			
084.9	49K	XMODEM50.ASM	Assembler source
code for XMODEM 5.0			
084.10	1K	XMODEM51.FIX	Notes on a bug fix
for XMODEM			

VOLUME 085           BYE 7.9 remote user i/o program

085.2	15K	BYE79.DOC	Documentation for
BYE 7.9			
085.3	48K	SD-44.ASM	8080 Assembler
source code for SD 4.4			
085.4	14K	SD-44.DOC	Documentation for SD
4.4			
085.5	16K	SQ-16.COM	8080 object file for
SQUEEZE 1.6			
085.6	23K	SQUEEZ16.DOC	Documentation for
SQUEEZE and UNSQUEEZE			
085.7	12K	USQ-19.COM	8080 object file for
UNSQUEEZE 1.9			

VOLUME 086           BusinessMaster II - CLASIC  
accounting system - 5 vols

VOLUME 087           BusinessMaster II - CBASIC  
accounting system - 5 vols

VOLUME 088 BusinessMaster II - CBASIC  
accounting system - 5 vols

Volume 089 BusinessMaster II - CBASIC  
accounting system - 5 vols

Volume 090 BusinessMaster II - CBASIC  
accounting system - 5 vols

VOLUME 91 Microsoft Fortran programs:

91.1	26K	ARIT.COM	(1) Executable arithmetic functions.
91.2	4K	ARIT.FOR	(1) Arithmetic functions.
91.3	1K	ARIT#.SUB	(1) Submit file.
91.4	2K	DISKIO.BAS	(1) Disk file I/O in BASIC.
91.5	21K	FFT.COM	(1) Executable FFT program.
91.6	27K	FFT.FOR	(1) 1024 point FFT.
91.7	4K	FFT#.SUB	(1) Submit file.
91.8	6K	HI.FOR	(1) DMP2 driver.
91.9	2K	HIA.MAC	(1) DMP2 driver.
91.10	1K	NAME.FOR	(1) Filename getter.
91.11	4K	PLOT.FOR	(1) Plotter plot routine.
91.12	9K	PRINT80.COM	(2) COM of PRINT80.FOR
91.13	1K	PRINT80.DOC	(2) DOC PRINT80.FOR
91.14	4K	PRINT80.FOR	(2) Compresses M80 PRN files
91.15	4K	PRINT80.REL	(2) REL of PRINT80.FOR
91.16	10K	PRINT81.COM	(2) COM of PRINT81.FOR
91.17	6K	PRINT81.FOR	(2) Print FORTRAN

and ASM files

with page ejects

and titles

91.18	5K	PRINT81.REL	(2) REL of
PRINT81.FOR			
91.19	1K	QCHEK.MAC	(1) Checks for abort
(Q) command.			
91.20	17K	SPECTRUM.DOC	(1) Documentation.
91.21	5K	TTYPLOT.FOR	(1) Printer plot
routine.			
91.22	2K	TWIDDLE.FOR	(1) Generates
twiddle factor table.			
91.23	8K	UTIL.FOR	(1) Utility program.
91.24	1K	UTIL#H.SUB	(1) Submit file.
91.25	1K	UTIL#T.SUB	(1) Submit file.
91.26	25K	UTIL-HI.COM	(1) DMP2 version of
UTIL.COM.			
91.27	24K	UTIL-TTY.COM	(1) TTY version of
UTIL.COM.			
91.28	5K	WIND.FOR	(1) Window
functions.			

VOLUME 92

SECRETARY word processing program.

SEE SIG/M VOL 109