A Brief Derive Version History

Martin Hepperle - 2022-2025

The following pages present a tabulation of versions of Derive and associated products like muLISP, muSIMP and, muMath.

Unfortunately, most printed manuals for these software products seem to be unavailable in scanned form, which is a pity. For example, scans of the following manuals would be very welcome:

- "muLISP-81 Reference Manual"
- "muLISP-82 Reference Manual"
- "muLISP-85 Reference Manual"
- "muLISP-86 Reference Manual", The Soft Warehouse, 408 p., 1986, Honolulu, Hawaii
- "muLISP-87 Reference Manual", The Soft Warehouse, 439 p., 1987, Honolulu, Hawaii
- "muLISP-90 Reference Manual"

Note: muLISP-81 and muLISP-83 dialects lack real number atoms.

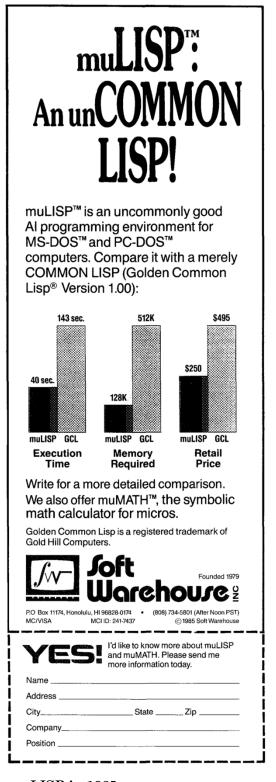
Growth of primitives in standard muLISP systems (MS-DOS version if not noted otherwise, without extensions loaded)

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muLISP-80
                (CP/M)
                         89 primitives (version before Microsoft licensing)
muLISP-80 2.0 (CP/M)
                         88 primitives (version licensed to Microsoft)
muLISP-83 4.11 (CP/M)
                         118 primitives (version licensed to Microsoft)
muLISP-83 4.11
                         121 primitives
muLISP-85 5.01
                         303 primitives
muLISP-86 5.10
                         354 primitives
muLISP-87 6.00
                         411 primitives, irrational and transcendental functions: IRRATNAL.LSP
muLISP-87 6.10
                         415 primitives, irrational and transcendental functions: IRRATNAL.LSP
muLISP-90 7.20
                         421 primitives, irrational and transcendental functions: IRRATNAL.LSP
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DOS Extender (XM) Versions

These version became available with muLISP90 and use extended memory. The following numbers were obtained in DOS-Box.

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muLISP-90 (RECLAIM) gives 340'467 bytes free
muLISP-90 XM (RECLAIM) gives 15'002'227 bytes free
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Typical advertisment for muLISP in 1985.

Year	Product/Version	Operating System and Comments
1977	muLISP	first version of muLISP functional
1979		company The Soft Warehouse founded
1979	muMath-79	CP/M (8080, Z80), TRS-80 DOS, implemented in muLISP
1979	muSIMP	written in muLISP to simplify user interaction
1980	muLISP-80	CP/M, with muStar, (8080), 10/06/80, before licensing to Microsoft

1980	muMath-80	Apple II (native 6502), Apple II (Z80 card with CP/M), and TRS-80
1980	muLISP-80	CP/M, Version 2.0, licensed by Microsoft
1980	muMath-80	CP/M, written in muSIMP-80 2.02 (Microsoft)
1980	muMath-80	CP/M, written in muSIMP 2.03, licensed by Microsoft
1981	muMath-80	CP/M, written in muSIMP 2.10, 04/25/81, licensed by Microsoft
1981	muMath-80	CP/M, written in muSIMP 2.12, 07/09/81, licensed by Microsoft
1981	muMath-80	CP/M, Osborne 1, written in muSIMP-80 2.14, 12/19/81 (Microsoft)
1981	muLISP-81	IBM PC and CP/M
1982	muLISP-82	IBM PC and CP/M, see Micro/Systems Journal Review, May/June, 1985
1982	muMath-82	IBM PC, see PC-Magazine Review, December, 1983
1982	muSIMP-80	Apple II, ADIOS, Version 2.15 (03/01/82), 6502, licensed by Microsoft
1984	muLISP-83	CP/M-80, Soft Warehouse Version 4.11 03/22/84, licensed by Microsoft
1984	muLISP-83	IBM PC, Soft Warehouse Version 4.11 03/22/84, licensed by Microsoft
1984	muMath-83	IBM PC, Version 4.12 (8088)
1985		company name changed to Soft Warehouse Hawaii.
1985	muLISP-85	IBM PC MS-DOS, Microsoft LISP Version 5.01 09/15/85
1986	muLISP-86	IBM PC MS-DOS, Microsoft LISP Version 5.10 01/06/86
1987	muLISP-87	IBM PC MS-DOS, Soft Warehouse Version 6.01 06/17/87
1988	muLISP-87	IBM PC MS-DOS, Soft Warehouse Version 6.03, 07/12/88
1988	muLISP-87	IBM PC, MS-DOS,Soft Warehouse Version 6.10, 12/07/88
1988	1.00	MS-DOS, implemented in muLISP
1988	1.02	MS-DOS, written in muLISP-87 (© 1983, 1985, 1986, 1987)
1988	1.51	MS-DOS, written in muLISP-87 (© 1983, 1987, 1989)
1988	1.53	MS-DOS, written in muLISP-87 (© 1983, 1987, 1989)
1988	1.56	MS-DOS, written in muLISP-87 (© 1983, 1987, 1989)
1988	1.60	MS-DOS, written in muLISP-87 (© 1983, 1987, 1989)
1988	1.61	MS-DOS
1988	1.62	MS-DOS, written in muLISP-87 (© 1983, 1987, 1989)
1989	2.00	MS-DOS, price \$200
1990	muLISP-90	IBM PC, Version 7.20 (02/07/94)
1990	2.013	MS-DOS, written in muLISP-87 (© 1983, 1987, 1989)
1990	2.033	MS-DOS, written in muLISP-87 (© 1983, 1987, 1990)
1990	2.05	MS-DOS, written in muLISP-90
1990	2.053	MS-DOS, written in muLISP-90 (© 1983, 1987, 1990)
1990	2.083	MS-DOS, written in muLISP-90
1991		Derive User Group (DUG) founded, newsletter published up to 2024
1992	2.50	MS-DOS, written in muLISP-90 (© 1983, 1987, 1990), HP 95LX Card
1992	2.54	MS-DOS, written in muLISP-90
1992	2.55	MS-DOS, written in muLISP-90
1992	2.55 XM	MS-DOS, uses EMS, written in muLISP 90 XM Version 7.16 (02/10/93)
	2.58	MS-DOS, written in muLISP-90
1993	muLISP-90 XM	IBM PC, Version 7.16 (02/10/93)
1993	2.60	MS-DOS, written in muLISP-90
1993	2.60 XM	MS-DOS, uses EMS
1994	muLISP-90 XM	IBM PC, Version 7.20 (02/07/94)
1994	3.00	MS-DOS, first version to support Acrospin for 3D graph visualization
1994	3.00y	MS-DOS, written in muLISP-90
1994	3.00y XM	MS-DOS, written in muLISP-XM 7.21, uses PharLap extender for EMS
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1700713106	2002	5.06	
muLISP for DERIVE 7.43 (03/06/01)			
2003 6.00 Windows 98, ME, 2000, XP	2003	6.00	Windows 98, ME, 2000, XP
2004 6.01 Windows (not: 98, ME) 2000, XP (1 March 2004)	2004	6.01	Windows (not: 98, ME) 2000, XP (1 March 2004)
2004 6.10 Windows 98, ME, 2000, XP, connects to TI-89, TI-89 Titanium, TI-92+, TI Voyage 200, written in muLISP for DERIVE 7.45 (08/17/04)	2004	6.10	
2007 Texas Instruments ends development and distribution of Derive	2007		

Notes:

- red: I have a copy of the files (which may be incomplete).
- black: must exist "somewhere", I found references to or screenshots of these versions.
- The prefix "mu" stands for "micro".
- There are probably many intermediate versions not listed here, as Soft Warehouse often provided small updates to fix problems reported by users.

The Derive versions for MS-DOS since Derive 3.0 supported the external program *Acrospin*. *Acrospin* could display 3D line meshes of three dimensional graphics. The data was transferred from the Plot menu via a *.ACD text file which contains lists of coordinates and straight line connectivities.

Localization

Most messages from Derive versions since 2.053 can be localized by adding a language file "DERIVE.LAN". This file contains pairs of English and foreign translations for the Prompt and Message Lines, but not for the menus. The menu bar is still in English and some of the prompts are not fully translated, for example the yes/no question prompt "Y/N" which expects a 'Y' or 'N' key to be pressed.

Derive versions since 3.05 allowed for localization of the menus by adding a menu file "DERIVE.MNU" which contains a hierarchical LISP list of the translated menu structure and the English commands to execute.

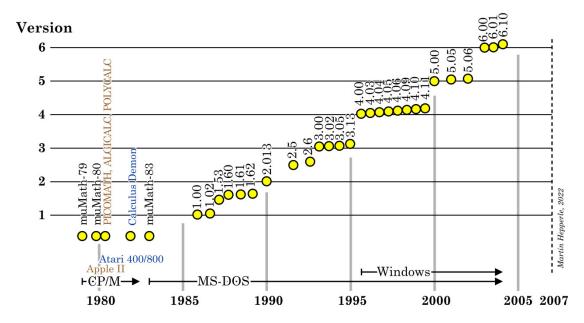


Figure 1: Derive version numbers versus publication year.

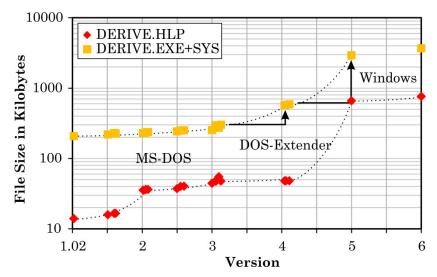
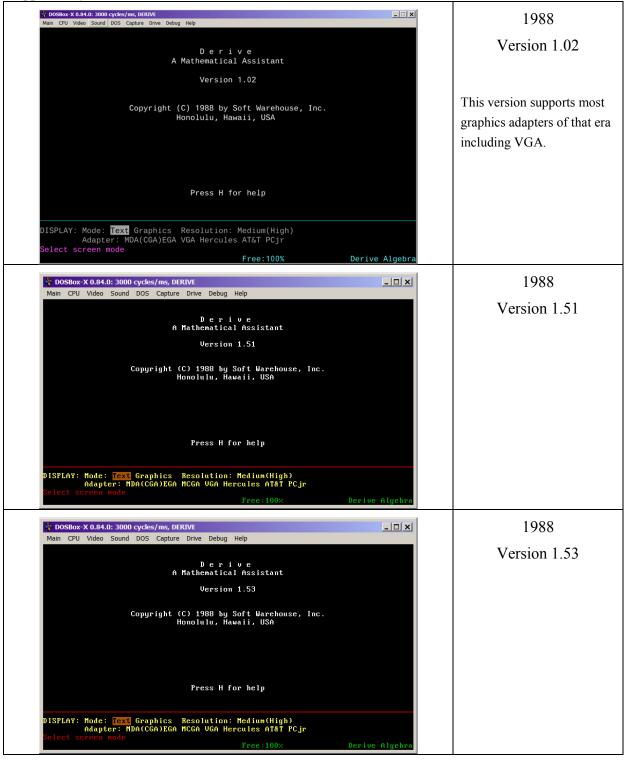
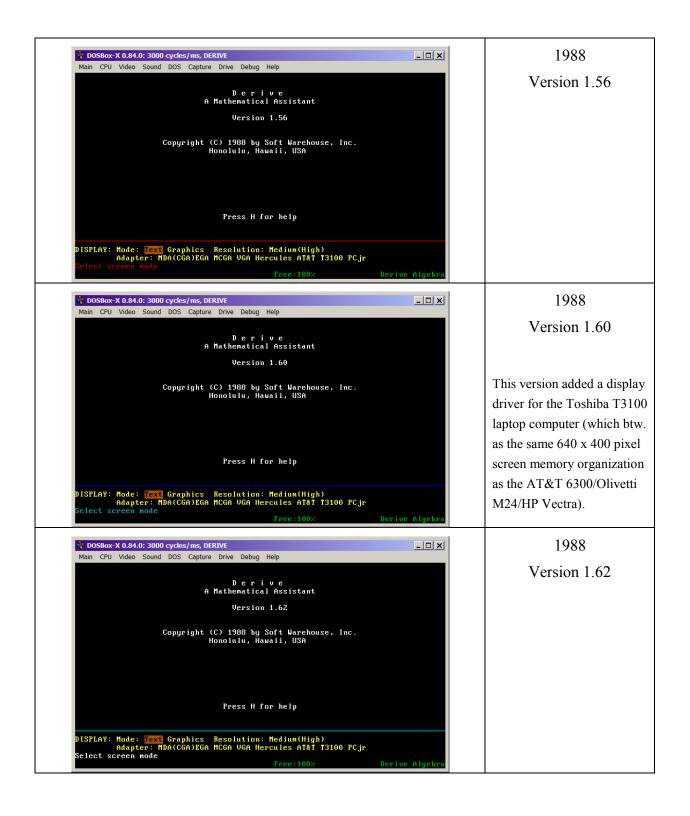
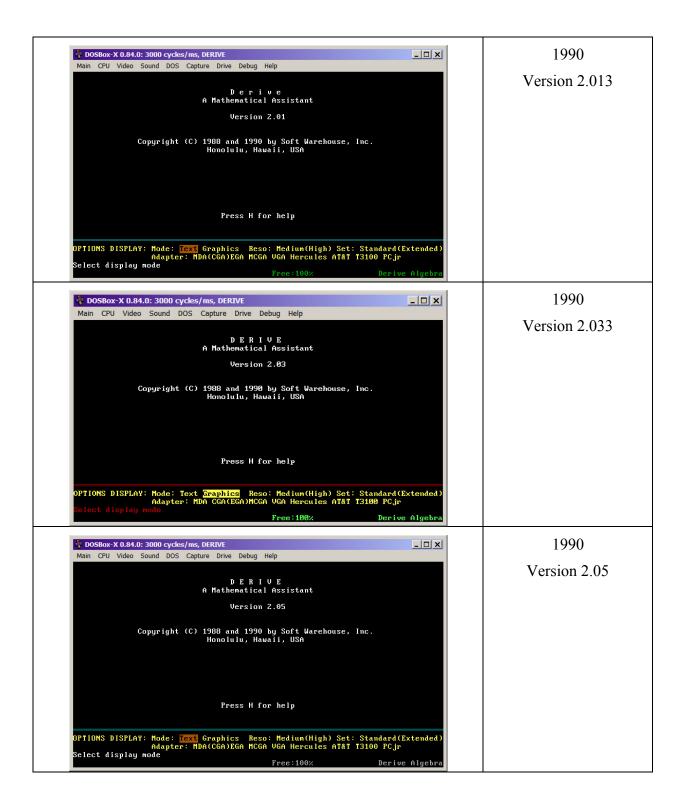


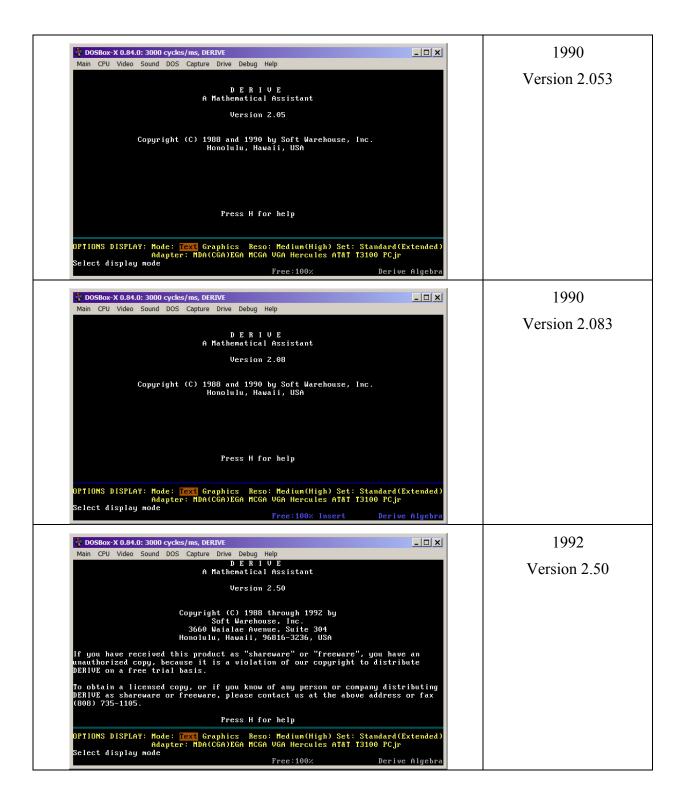
Figure 2: Growth of the main Derive files versus publication year.

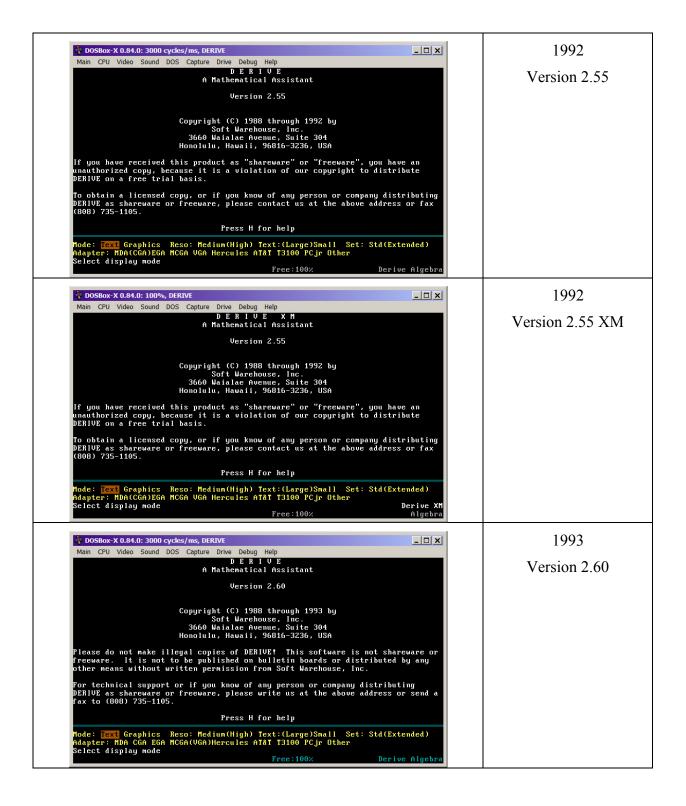
The following screenshots were taken with \underline{O} ptions / \underline{D} isplay active to show the graphics cards supported by each version.

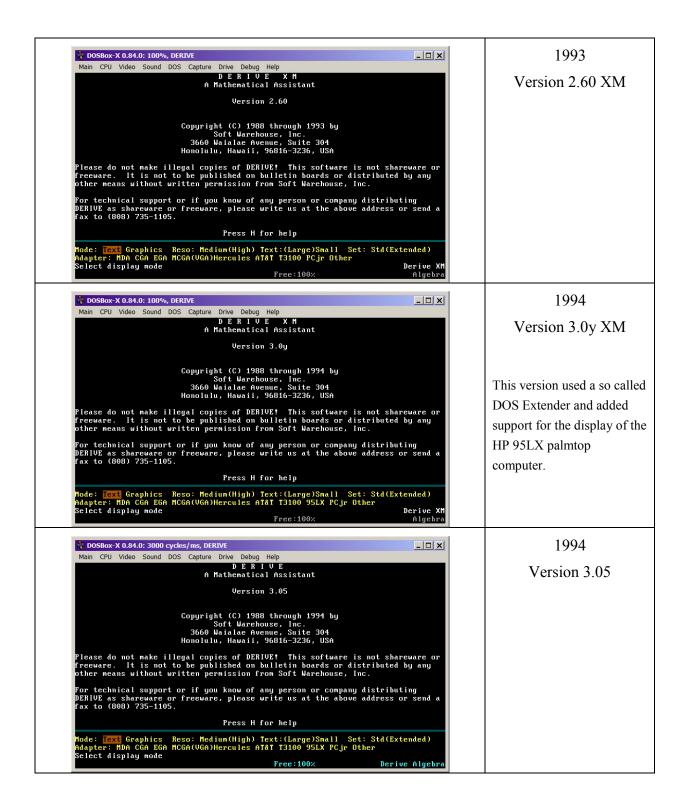


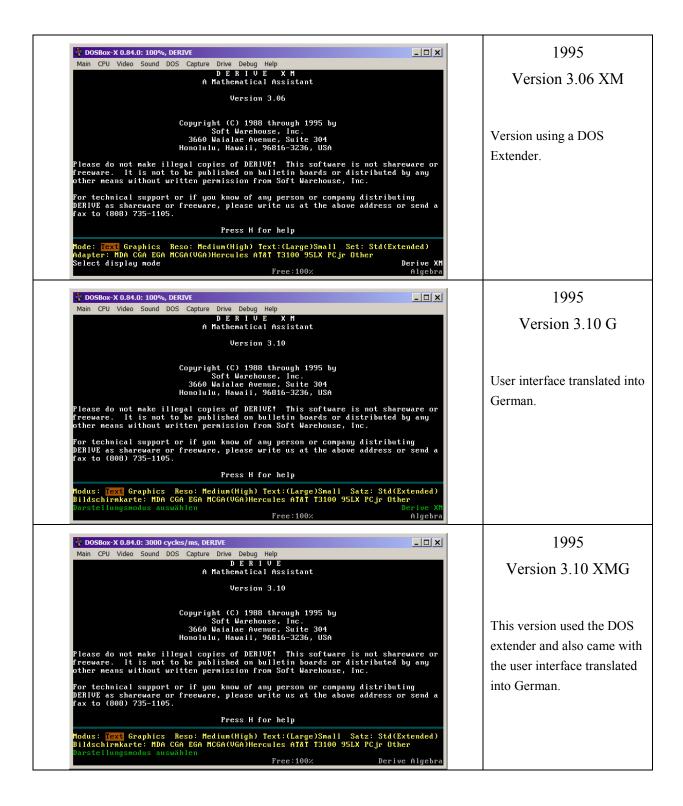


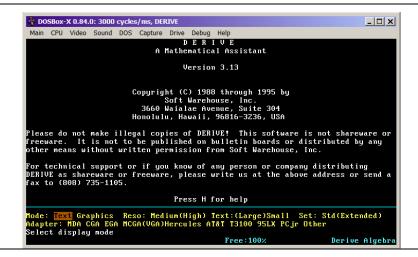




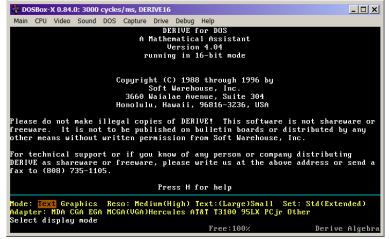








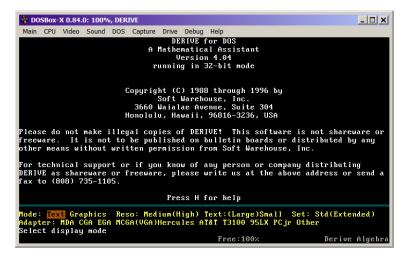
1995 Version 3.13



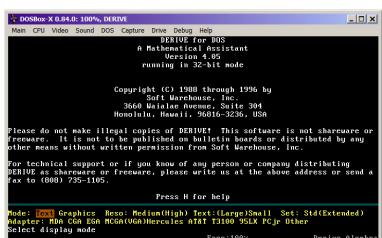
1996 Version 4.04

This version came with executables for a 16-bit and a 32-bit DOS Extender variant.

The 32-bit option required a 32-bit processor like the 80386.









1996 Version 4.05

This version came with executables for a 16-bit and a 32-bit DOS Extender variant.

1996 Version 4.06

This version also used the 32-bit DOS Extender.



1996

Version 4.11

This version used also used the 32-bit DOS Extender.

It still supported the HP 95LX palmtop computer.

Terminal Installation for muLISP and Derive

The early versions of muLISP up to version 6.10 and Derive up to version 2.083 can be installed for different terminal types.

I don't know whether there was a Wordstar-like installation program for selecting preconfigured terminals or even defining your own escape sequences. The list found in the program code suggest so.

Today I can only patch the code to select different terminals.

The terminal list also includes the HP-110 and HP-150. Therefore, Derive versions up to 2.083, which have been built with these muLISP versions, can be patched to work with the HP-150 and HP-110. However, graphics mode and equation displays are not properly supported (axes and points use incorrect characters).

The *.COM files contain a list of terminals.

```
1 = Other generic MS-DOS computer
2 = IBM PC compatible computer
3 = ANSI.SYS screen or VT-100 Terminal
4 = TI Professional Computer
5 = Zenith Z-100 Computer or VT-52 Terminal
6 = Hewlett-Packard HP-150 Computer
7 = Hewlett-Packard HP-110 Computer
8 = NEC Advanced PC or ADM-3A Terminal
9 = NEC PC-9801 Computer
A = Fujitsu Computer
```

The terminal byte or word in the following context contains the terminal number. Here it has been changed to "06", the HP-150 Computer.

Literature related to Derive

(There are a huge number of books about Derive and its application and many of them have been listed in the Derive Users Group Newsletters, many can be loaned from your local library or from archive.org)

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- [3] Arney, David C., "Derive Laboratory Manual for Differential Equations", Addison-Wesley, 1991, 189 pages.
- [4] Arney, David C., "Exploring Calculus with Derive", Addison-Wesley, 1992, 166 pages.
- [5] Arney, David C., "The Student Edition of Derive", Addison-Wesley, 1992, 387 pages, uses Derive Version 2.
- [6] various authors, "Lab Resource Manual to accompany The Student edition of Derive", 1992, 69 pages.
- [7] Glynn, Jerry, "Exploring Math from Algebra to Calculus with Derive", Mathware, 1992, 154 pages, uses Derive Version 2.51.
- [8] Berry, J.S., Graham, E., Watkins, A. J. P., "Learning Mathematics through Derive", Ellis Horwood, 1993, 371 pages.
- [9] Koepf, W., Ben-Israel, Ben, Gilbert, Robert P., "Mathematik mit Derive", Vieweg 1993 (German).
- [10] Denton, Brian, "Learning Linear Algebra through Derive", Prentice Hall, 1995, 353 pages.
- [11] Townend, M. Stewart, Pountney, David C., "Learning Modelling with Derive", Prentice Hall, 1995, 244 pages.
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- [13] Abbey, May Kay, "Calculus Explorations using Derive", Saunders College Publishing, 1996, 84 pages.
- [14] Bogess, Al, et. al., "Single Variable Calculus with Derive", Brooks/Coole Publishing Company, 1999, 208 pages.

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- [1] Williams, G., "The muSIMP/muMATH-79 Symbolic Math System", BYTE Magazine, 11/1980.
- [2] Shochat, David D., "Experience with the muSIMP/muMATH-80 Symbolic Mathematics System", ACM SIGSAM Bulletin #3, pp. 16-23, August 1, 1982. [refers to muSIMP/muMATH-79]
- [3] McClennan, David T., "LISPing with your PC", (review, includes muLISP-82), PC Magazine, 12/1983.
- [4] Carter, M., "Adding IO Functions to muLISP", Dr. Dobbs Journal, Vol. 9,1984. [refers to muLISP-80 CP/M]
- [5] Bortz, J., Diamant J., "LISP for the IBM Personal Computer", (review, includes muLISP-83), BYTE Magazine, 7/1984.
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- [7] muLISP 4.1 Review, c't Magazin, 03, 1986 (German).
- [8] Piddock, P., "Extended muSIMP/muMATH for Teaching and Learning Mathematics", Comput. Educ., V10N1, pp. 155-158, Pergamon Press, 1986.

- [9] Schwartz, Stanley, "Customizing muLISP", Sextant, Issue 20, Jan-Feb 1986. [refers to muLISP-83 CP/M, muLISP-85 MS-DOS and Zenith computers]
- [10] Trindle, Carl, "Application of the MuMATH Symbol Manipulation System to Chemically Significant Permutation Groups", J. Symbolic Computation, p.207-212, 1986. [refers to Apple II 6502 version of muMATH]
- [11] Wooff, C., Hodgkinson, D., "muMath a Microcomputer Algebra System", Academic Press, 1987, 159 pages.
- [12] DeMers, Michael N., "SEDRULE: A Rule-Based System for Interpreting some Major Sedimentary Environments", Computers & Geosciences, V16N6, pp.833-846, 1990. [uses muLISP-86]

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- [1] "muSIMP/MATH-79 Reference Manual", 135 pages, 1979.
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- [4] "The muMATH/muSIMP-80 Symbolic Mathematics System Reference Manual for the CP/M Version", 148 pages, 1981. [covers Apple II CP/M with Z80 card, Apple II with Apple DOS 3.3, TRS-80 1&3 TRSDOS, TRS-80 2 CP/M, Imsai VDP IMDOS, 8080, 8085, Z80 CP/M systems]
- [5] "Microsoft muLISP Artificial Intelligence Development System", Reference Manual for muLISP-83, 1983. [covers versions for CP/M, IBM PC, Apple II with Z80 card]