

# **IBM OS/2 2.x's Enhanced Editor**

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Unclassified

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## Description

The OS/2 2.x Enhanced Editor (EPM) is a general purpose text editor for IBM's OS/2 Presentation Manager. (Supporting OS/2 version 1.3 and 2.x.)

EPM is delivered with a wide variety of text editing function that was designed to appease a broad range of users. Whether programming in C using the IBM Workframe/2, manipulating your electronic mail using IBM's LaMail for TCP/IP, creating WYSIWYG foils, or simply modifying a data file, EPM can adapt to any text editing situations.

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### Background

The OS/2 2.x Enhanced Editor (EPM) is part of a family of IBM Internal-Use-Only programmable text editors developed between 1985 and 1992. (E3-DOS, E3AIX- AIX, EOS2- OS/2 full screen, EPM-PM-AVIO, and Enhanced Editor- 1.3-2.x GPI)

**(EPM's popularity is attributed to programmability, adaptability, industrial strength)**

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## Multiple Windows

- The Enhanced Editor supports multiple PM windows (Instances)
- Each instance contains it's own Enhanced Editor work thread.
- This design prevents "long running" commands from *locking* the system or other Enhanced Edit windows.

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## Multiple Files per Window (We call this feature the

"file RING")

- A file RING allows quick and easy access to sets of files.
- The Enhanced Editor supports the editing of VERY LARGE files!
- By default the RING is disabled. The RING can be Enabled by selecting Options/Preferences/Ring enable
- The "ROTATE icons" allows one to traverse to the previous or next files in the Ring.
- "List ring..." displays a list of the files in the edit window RING.

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## Multiple Fonts and Colors per File

- Supports *Adobe Type Manager Fonts* (ATM)
- "Styles" allow a name to be assigned to a color and font.
- Color and font attributes are SAVED in the files Extended Attribute area. (Didn't invent a new file format!)
- "Styles" are saved in the Enhanced Editor profile. (EPM.INI)

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## Editing Paradigm

- Stream editing - Where the entire file is treated as a continuous stream of characters. (Enter key- splits lines, delete key- joins)
  - Line editing- Where a file is modified by manipulating lines.
  - Easy to switch between the two paradigms with a simple point and click. (Options/Preferences/Stream editing)
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## Advanced Text Selection

- Character - for selecting streams of characters
  - Line - for selecting lines of text
  - Block - for selecting "rectangular regions of text" (mono-font)
- Plus... [ 6 ]
- Uppercase/Lowercase
  - Shift Left/Right
  - Sort
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## Printing Services

- Print Dialog containing...
    - Near WYSIWYG Printing
    - Print Preview window which gives a "birds eye view"
    - Draft mode printing for quick, single font, output.
    - Selected area printing
- [ 7 ]
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## In-line OS/2 2.x Command Processor

- With the "SHELL" command, an edit window can be used as an OS/2 windowed command prompt.

```
C:\OS2 >
C:\OS2 > dir a*.exe
The volume label in drive C is IBMDOS_5.
The Volume Serial Number is 1739:5B74
Directory of C:\os2

ANSI      EXE      4659   3-20-91   3:41p
APPEND    EXE      6912   3-20-91   3:44p
  2 File(s)  8077312 bytes free
C:\OS2 >
```

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## Full Function Search

- Search dialog including...
    - Selected areas
    - Regular expression (GREG)
    - Reverse search
  - Bookmarkers
    - Give the ability to set "Place holders" in a file
    - Bookmarkers can be saved with a file.
  - Command line search/change commands
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## On-line Help

- Help manager
  - Extendable Quick Reference (EPMHELP.QHL)
  - Context Sensitive Help
    - Quick help (Ctrl-H)
    - Configurable and extendable via NDX files.
- Example 1: ( dir , type )  
Example 2:
- [ 10]

```
VOID C-Function( PSZ A, PSZ B )
{
    UCHAR C[MAXSTR];
    strcpy( c, a);
    strncat(c, b, MAXSTR);
    printf(c);
}
```

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## Undo/Redo Support

- Multiple levels - Timeline dialog
  - Single line Undo
  - (Internally configurable)
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### Host File Editing

- Communications Manager- Send and Receive/Other flavors

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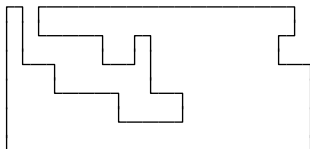
## Math Support

- Selected Area (add, mult)  
ADD, MULT commands  
Example....  
  
100  
12.44  
0.6234
  - Expression evaluation  
MATH, MATHX, MATHO commands
- [ 12]

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## Extended Character Manipulation

- Supported commands...  
BOX  
DRAW  
Example....



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## Extended Clipboard Support

- Cut
- Copy
- Paste
  
- Plus...
  - Quick Key Cut and Paste
  - Keyboard Recording (ctrl-R, ctrl-T)

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## Direct Manipulation

- Titlebar manipulation to change file name
- Drag and Drop of...  
Files, Text, and "Functions"
- Landing Strips...
  - Client area
  - Titlebar
  - Editor server icon ( /I option)

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## Language Sensitive Editing

- Languages include...  
**C** (\*.C)  
**REXX** (\*.CMD)  
**Pascal** (\*.PAS)  
**E** (\*.E)
- EXPAND command to turn language sensitive editing on/off

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## IBM Workframe/2 Integration

- Configuring the Enhanced Editor to work with IBM Workframe/2
  - Error Message Descriptions [ 17]
  - Drag and Drop of error messages
  - /I option - for enhanced performance
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## Other things of interest...

- Dialogs
    - Command Dialog
    - Settings
    - Autosave
  - API's [ 18]
    - REXX documentation and samples
    - C bindings
  - Future considerations
    - Proof and Synonym
    - TRUE Workplace Shell support
    - SGML
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## Programmability

- REXX
    - Example- show and modify TOUPPER.ERX
    - Example- build a PROFILE.ERX that adds a menu
  - E language (Compiled REXX) [ 19]
    - Example- Samples
  - C language
    - Example- E-MLE in a PM-dialog
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## Support/Questions/Etc.

- IBM Support Line Bulletin Board
  - E-EDITOR CFORUM

### Ordering products or product information

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<b>Bitnet</b>	WatWorks at YKTVMV
<b>Internet</b>	WatWorks@watson.IBM.com
<b>Phone</b>	1-800-954-0144
	1-914-945-2316

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