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Fax: Omnifax G99 (206) 883-8101

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In Plan

* Reduction of <640K memory footprint by running DOS in the HMA

* Physical Size Reduction of Resident MS-Dos

* Utility/command additions and improvements

* Completely rewritten documentation (task oriented with more examples/scenarios)

* Rewritten Shell and Installation

* Fully ROM executable DOS including suspend/resume, multiple level power management, and rom disk emulator support.

* Support for Exec only attribute on network files

* New hardware support

Currently under consideration:

* Upper Memory Block (UMB) Support in EMM386
* Task switcher (winoldapp)
* File Transfer Utility
* Media sensing and R/W Optical support in Format
* Brazillian Keyboard
* Direct Manipulation in Shell
* Mouse execute in HMA

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Reduction of < 640K memory footprint

* Dos Kernel and Bios relocate to the HMA as provided by XMS

* Support internal DOS interface for sharing HMA with other
  DOS device Drivers and utilities.

* Put majority of buffers in HMA

* Command.com executing in HMA

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Physical Size Reduction of Resident MS-Dos

* **Remove support for buffers in EMS**

* **Remove Hash organization for buffers**

* **Install modified LRU buffer organization**

* **Remove Fastopen Extents caching**

* **Enable access to large partitions without loading share**

* **Remove IFS**

* **Optimize Message retriever and other Command.com Code**

* **Reusable Command.com code (savings of 2K for each invocation after the initial command.com)**

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Utility/command additions and improvements

* New MS-Dos installation utility and RUP installation utility

* Subdiretory search, sort options and other enhancements to the DIR command

* New Command Recall / Macro Key utility

* Safe Format and new unformat utility for hard disks.

* Attrib control of system and hidden attributes

* /? switch (brief command line help) on all commands.

* Improved expanded memory support (emm386) including VCPI and busmaster support.

* Replace BASICA with Quick Basic Interpretor (QBI)

* Full Screen Editor (based on QBI edit engine)

* Rewritten MS-Dos Shell with enhanced functionality/usability

* New SETVER utility (tells DOS to "lie" about version to an app)

* DISKCOPY /V option (verify copy is correct)

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ROM and Laptop Support

* Fully ROM executable DOS (except init code, which will copy
  to RAM):

    - 15K low memory footprint

    - Requires 64K ROM (excluding externals)

* Standard ROM Disk Emulator

* Multiboot option

    User may bypass ROM

    Allows boot from any disk

    Alloiws configuration from any drive

* Integrated power management support:

    Power.sys - power managment device driver

    New Ioctls for power aware apps

    Suspend sensitivety adjusted by user

    CPU halt/slowdown during system idle

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New Hardware Support

*   > 2 Hard Disks
*   >2 Internal Diskettes begin after last hard disk.
*   2.88Meg Diskette Support
*   New Media sensing IOCTLs

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New Installation

*   **Significant usability improvements**
*   **Automatic Config.sys and Autoexec.bat setup**
*   **Support for 1.2, 1.44, 2.88, 360, and 720K diskettes.**
*   **Designed for future integration with Windows**
*   **Reduce time to install**
*   **Reduced cost of goods (due to larger media format)**

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Status

*   Original plan code complete 3/90
*   Additions code complete 5/15/90
*   Beta 1 shipped 6/15/90
*   Beta 2 planned Ship 7/30/90
*   ESP beta OAK planned ship 7/30/90
*   Final test 9/90
*   OEM OAK to manufacturing 9/90
*   ROM OEM OAK to manufacturing 10/90

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Cost Of Goods

Current diskette projections

* three 720K diskettes

* five 360 diskettes

* 2 1.2 Meg diskettes

* 1 2.88 Meg diskette

Reason for expected growth over DOS 4.x:

* Task Switcher

* File transfer utility

Documentation:

* Current Projection is $3.50 for docs.

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