MOS Plus ROM instructions

MOS Plus additions to the Master Operating System (Version3.10),
Fixes DFS bug, that writes wrong file length when using *CLOSE or CLOSE#0.

Can be used in S/Ways RAM with Econet and any processor or peripheral.

Enhanced Star Commands

*APPEND <fsp>

Now accepts chars. up to CHAR$(256). Function keys must be used.

Teletext control codes can be included in *BUILD and *APPEND files.

*BACKUP <source> <destn> (<S>) (<P>) (<Y>)

'S' option this will corrupt Sideways RAM. Protect images.

    S   Uses Sideways RAM only to make the backup. 5-10 times faster.
    P   Pauses between reads & writes to single drive.
    Y   Bypasses the Y/N check.

*BASIC <@><Hex addr>

Will tokenize text from any address, including EDIT's buffer.

i.e. Basic written in VIEW, SAVE'd then *LOADed at &1000. Issuing *BASIC @1000 would tokenize the file ready to LIST and RUN.

*BUILD <fsp>

Like *APPEND, now accepts chars. up to CHR$(256) when creating files.

*EDIT

Now accepts filenames immediately after the command

*ED.FILE   and any intervening spaces.
*ROMS   Now list as RAM or ROM. Does not list duplicates.

SHOW (<key-number>)

Key number can now be omitted and contents are shown.

*SRLOAD <fsp><sram address><bank>(<Q>)(<I>)

*SRWRITE <addr><addr><sram addr><bank>(<I>)

Parameter, 'I', will copy byte at &8006 into bank &2A1+bank. To Init Rom.

*STATUS (<item>)

Now lists the MOS status in alphabetical order.

*UNPLUG <bank>(<I>)

'I' used to de-select rom immediately.

New Star Commands

*BLIST <fsp>(<LISTO format>)

```
<LISTO format> option 0-31 bit significant.

     b0   One space inserted.
     b1   FOR...NEXT indented.
     b2   Split the line at colon.
     b3   No line numbers.
     b4   keywords in lower case.
```


*CATALL (<drive>)

```
ADFS catalogue, directory levels.
```


*EXALL (<drive>)

```
*EX on all files. Dirs. indented.
```


*DRIVE (<drive>)
```
Simulate DFS *DRIVE n as ADFS *DIR :n.$
```


*FIND (<:drive><afsp>)(<D>(<F>)

```
Wild  cards '#' and '*' supported.

Find a file on ADFS disc, display filename and path.

'D' prints directory name .
'F' lists full catalogue information as *EX . i.e. 'DF'
```


*FORMAT <drive><S M L>(<Y>)(<N>)

```
does not corrupt main memory,

'Y' bypass Prompt 'YES'. 'N' for no verification. i.e. 'YN'
```


*SETTIME <date time date time>   as TIME$

```
i.e. "Wed,11 Nov 1987.11:11:00"
     "WED,11  Nov1987"
     "11:11:00"
```

*SRKILL <bank-id>

Wipes first 127 bytes of one or more Sideways ROM images.
i.e. *SRKILL W X Y Z or *SRKILL 4 5 6 7

*VERIFY (<drive>)

or currently mounted drive verified.

Alarm Clock System

Make LK4 on main board. Found near middle left edge to the right of the left-hand
co-processor connector. Co-processor must be removed.

Test using *ALARM S. to beep every second.

```
*ALARM                    Alone shows setting. Asterisks if not set correctly.
*ALARM    <HH:MM:SS>      Sets the alarm. rings for 90 secs.
*ALARM    OFF            (permanently stops)
          BREAK          (stopped until the same time tomorrow)

*ALARM    S              Sounds alarm every second.
          M              For every minute on the minute.
          H              For every hour on the hour.

*ALARM    ON or OFF      Enables or Disables the alarm.
*ALARM    QUIET or LOUD  permanently set with *CONFIGURE ALARM QUIET or LOUD.
```

When the alarm is sounded, a USER EVENT (No.9) is generated.

Set event vector to point to your routine.
At the end of your routine, jump to the old contents of the vector (Address).
Accumulator must equal 9 on entry, called every time the alarm signal occurs.
Additional event entry values are provided in the 'X' register as follows:

```
    0    Alarm at specified time
    1    Second time signal
    2    Minute time signal
    3    Hour time signal
```

On exit set the top bit of X, to stop the alarm bell sounding.

Bug Fixes

*REMOVE
fails if a second filename follows the first.

This stops problems with using *REM. when you meant *REN. for RENAME. The CMOS RAM R-Poweron reset now puts sensible numbers in the CMOS bytes.

Previously were set to zero.

Help System

```
MOS Plus contains detailed help text on many Master features. When you type *HELP
there are 5 options.

MOS+ 1.15
  MOSPlus - For list of new commands
  BASIC  - For list of BASIC keywords
  VIEW   - For help on VIEW commands
  Alarm  - For help on using the alarm-clock
  Terminal- For Help on Terminal commands.


*HELP VIEW <topic> for list of help info.

topics:     Commands,
            Stored,
            Functions,
            Highlights,
            Sheet
            Spell.

i.e. *HELP VIEW high.  abbreviations allowed and any case.
```

ADDITIONAL COMMANDS

```
*configureSTART(<string>) pushed into the keyboard buffer on hard resets.

The string should be i.e |G = CHR$(7) format etc. Max. 20 chars.
i.e. *configureSTART*CAT|M  when switched on or CTRL/BREAK.
     *configureSTART. cancels string.  *STATUS  will show 'No Start'.
     *configureCOLOUR<0-15> Sets backgroud
```