

```

EEEEEEEEEE XX XX AAAAAA MM MM PPPPPPPP LL EEEEEEEEE SSSSSSSS
EEEEEEEEEE XX XX AAAAAA MM MM PPPPPPPP LL EEEEEEEEE SSSSSSSS
EEEEEEEEEE XX XX AAAAAA MM MM PPPPPPPP LL EEEEEEEEE SSSSSSSS
EE XX XX AA AA MMMM MMMM PP PP LL EE SS
EE XX XX AA AA MMMM MMMM PP PP LL EE SS
EE XX XX AA AA MMMM MMMM PP PP LL EE SS
EE XX XX AA AA MM MM MM PP PP LL EE SS
EE XX XX AA AA MM MM MM PP PP LL EE SS
EEEEEEEE XX XX AA AA MM MM PPPPPPPP LL EEEEEEEEE SSSSSSS
EEEEEEEE XX XX AA AA MM MM PPPPPPPP LL EEEEEEEEE SSSSSSS
EEEEEEEE XX XX AA AA MM MM PPPPPPPP LL EEEEEEEEE SSSSSSS
EE XX XX AAAAAAAAAA MM MM PP LL EE SS
EE XX XX AAAAAAAAAA MM MM PP LL EE SS
EE XX XX AAAAAAAAAA MM MM PP LL EE SS
EE XX XX AA AA MM MM PP LL EE SS
EE XX XX AA AA MM MM PP LL EE SS
EE XX XX AA AA MM MM PP LL EE SS
EEEEEEEEEE XX XX AA AA MM MM PP LLLLLLLLLL EEEEEEEEE SSSSSSSS
EEEEEEEEEE XX XX AA AA MM MM PP LLLLLLLLLL EEEEEEEEE SSSSSSSS
EEEEEEEEEE XX XX AA AA MM MM PP LLLLLLLLLL EEEEEEEEE SSSSSSSS

```

```

LL      BBBB8888  RRRRRRRR  MM      MM      AAAAAA  CCCCCCCC
LL      BBBB8888  RRRRRRRR  MM      MM      AAAAAA  CCCCCCCC
LL      BB      BB  RR      RR  MMMM   MMMM  AA      AA  CC
LL      BB      BB  RR      RR  MMMM   MMMM  AA      AA  CC
LL      BB      BB  RR      RR  MM  MM  MM  AA      AA  CC
LL      BB      BB  RR      RR  MM  MM  MM  AA      AA  CC
LL      BBBB8888  RRRRRRRR  MM      MM  AA      AA  CC
LL      BBBB8888  RRRRRRRR  MM      MM  AA      AA  CC
LL      BB      BB  RR  RR  MM      MM  AAAAAAAAAA  CC
LL      BB      BB  RR  RR  MM      MM  AAAAAAAAAA  CC
LL      BB      BB  RR      RR  MM      MM  AA      AA  CC
LL      BB      BB  RR      RR  MM      MM  AA      AA  CC
LLLLLLLLLL  BBBB8888  RR      RR  MM      MM  AA      AA  CCCCCCCC
LLLLLLLLLL  BBBB8888  RR      RR  MM      MM  AA      AA  CCCCCCCC

```

```

MM      MM      AAAAAA  RRRRRRRR
MM      MM      AAAAAA  RRRRRRRR
MMMM   MMMM  AA      AA  RR      RR
MMMM   MMMM  AA      AA  RR      RR
MM  MM  MM  AA      AA  RR      RR
MM  MM  MM  AA      AA  RR      RR
MM      MM  AA      AA  RRRRRRRR
MM      MM  AA      AA  RRRRRRRR
MM      MM  AAAAAAAAAA  RR  RR
MM      MM  AAAAAAAAAA  RR  RR
MM      MM  AA      AA  RR      RR
MM      MM  AA      AA  RR      RR
MM      MM  AA      AA  RR      RR
MM      MM  AA      AA  RR      RR

```

SCI

er

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Lir

Lir

```
.TITLE demo_mac
.IDENT 'V04=000'
```

```
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```

```
::
:: Macros
::
```

```
$credef          ; Define create options array offsets
$dscdef          ; Define string descriptor offsets
$lbrdef         ; Define librarian parameters
$lbrctltbl      ; Define library control table offsets
$namdef         ; Define NAM block offset
```

```
:: Set up FORTRAN COMMON block to allow FORTRAN main program to
:: access librarian data
::
```

```
.PSECT lbrdata, PIC, OVR, REL, GBL, SHR, NOEXE, RD, WRT, LONG

.long lbr$c_read      ; func_read
.long lbr$c_create   ; func_create
.long lbr$c_update   ; func_update
.long lbr$c_typ_txt  ; type_text
.long lbr$c_typ_hlp  ; type_help
.long rms$ eof       ; rmseof
.long dsc$K_class_d  ; class dynamic
                    ; offsets into create options array
                    ; values are divided by 4 to convert byte
                    ; offsets into longword offsets

.long cre$l_type/4   ; type of library
.long cre$l_keylen/4 ; max key length
.long cre$l_alloc/4 ; initial library disk allocation
.long cre$l_idxmax/4 ; number of indices
.long cre$l_uhdmax/4 ; size of additional module header data
.long cre$l_entall/4 ; number of index entries to preallocate
```

```
.SBTTL nam_init - Initialize RMS NAM block
```

```
++
```

```
Initialize array to be an RMS NAM block
```

```
Calling sequence:
```

```
call nam_init (nam_array, result_desc)
```

```
Inputs:
```

```
nam_array      Address of array of ? bytes to be initialized
                as a NAM block

result_desc    Address of string descriptor for resultant name
                string.
```

```
Outputs:
```

```
The nam_array is initialized as a NAM block, with the expanded
and resultant name strings pointing to the string described by
result_desc.
```

```
Routine value:
```

```
Always success
```

```
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```

```
.PSECT $code$, PIC, REL, SHR, EXE, RD, NOWRT
```

```
.ENTRY nam_init, ^M<R2, R3, R4, R5, R6>
```

```
movl    4(AP), r6          ; Get address of NAM block
movc5   #0, (SP), #0, #nam$c_bln, (r6) ; Zero the NAM block
movl    8(AP), R0         ; Get address of resultant name string descriptor
$NAM_STORE NAM = R6,-    ; Initialize the NAM fields
                BLN = #nam$c_bln,-    ; block length
                BID = #nam$c_bid,-    ; block id
                RSS = dsc$w_length(R0),- ; resultant name string size
                ESS = dsc$w_length(R0),- ; expanded name string size
                RSA = @dsc$a_pointer(R0),- ; resultant name string address
                ESA = @dsc$a_pointer(R0) ; expanded name string address

movl    #1, r0           ; Return with success
ret

.END
```

The image displays a grid of 100 small terminal window screenshots, arranged in 10 rows and 10 columns. Each window shows a different VAX/VMS command and its output. The windows are arranged in a grid. Many windows have titles like 'LPMULT B32', 'DRMAST MAR', 'ADDRIVER MAR', 'TORIVER MAR', 'USSTEST MAR', 'GBLSECURF MAR', 'USSDISP MAR', 'XADDRIVER MAR', 'LBRMAC MAR', 'LABLOCIN MAR', 'DTE_DF03 MAR', 'DRSLU MAR', 'SECRET MAR', 'WORKO LIS', and 'EXAMPLES'. Each window contains text-based data, including system status, command prompts, and output results.