


```

CCCCCCCC LL      UU      UU      SSSSSSSS TTTT'TTTTTT RRRRRRRR MM      MM      AAAAAA CCCCCCCC
CCCCCCCC LL      UU      UU      SSSSSSSS TTTT'TTTTTT RRRRRRRR MM      MM      AAAAAA CCCCCCCC
CC        LL      UU      UU      SS        TT        RR      RR      MMMM  MMMM  AA      AA  CC
CC        LL      UU      UU      SS        TT        RR      RR      MMMM  MMMM  AA      AA  CC
CC        LL      UU      UU      SS        TT        RR      RR      MM  MM  MM  AA      AA  CC
CC        LL      UU      UU      SSSSSS    TT        RRRRRRRR MM  MM  MM  AA      AA  CC
CC        LL      UU      UU      SSSSSS    TT        RRRRRRRR MM  MM  MM  AA      AA  CC
CC        LL      UU      UU      SS        TT        RR  RR      MM  MM  MM  AAAAAAAAAA CC
CC        LL      UU      UU      SS        TT        RR  RR      MM  MM  MM  AAAAAAAAAA CC
CC        LL      UU      UU      SS        TT        RR      RR      MM  MM  MM  AA      AA  CC
CC        LL      UU      UU      SS        TT        RR      RR      MM  MM  MM  AA      AA  CC
CCCCCCCC LLLLLLLLLL UUUUUUUUUU SSSSSSSS TT        RR      RR      MM  MM  MM  AA      AA  CCCCCCCC
CCCCCCCC LLLLLLLLLL UUUUUUUUUU SSSSSSSS TT        RR      RR      MM  MM  MM  AA      AA  CCCCCCCC

```

```

MM      MM      AAAAAA RRRRRRRR
MM      MM      AAAAAA RRRRRRRR
MMM     MMM     AA      AA  RR      RR
MMM     MMM     AA      AA  RR      RR
MM  MM  MM     AA      AA  RR      RR
MM  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

```

.TITLE CLUSTRLOA_MACROS
.IDENT 'V04-000'

```

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```

```

**
: FACILITY:
:
: VAX/VMS EXECUTIVE, VAXcluster MANAGEMENT
:
: ABSTRACT:
:
: This module contains macros in common use by the VAXcluster management
: routines.
:
: AUTHOR: Ralph O. Weber          21-JUN-1983
:
: MODIFIED BY:
:
:--

```

```
.SBTTL CSID_TO_CSB
```

```
++ This macro converts a CSID to a CSB.
```

```
Inputs:
```

```
R3 CSID
```

```
Outputs:
```

```
R0 & R1 destroyed
CSB CSB address [default = R0]
ERROR error exit address (taken when CSID is not valid)
--
```

```
.MACRO CSID_TO_CSB CSB=R0, ERROR
MOVZBL R3,R0 ; Get CSID index value.
MOVL G^CLUSGL_CLUSVEC,R1 ; Get base of CSB vectors.
MOVL (R1)[R0],R0 ; Get CSB address.
BGEQ ERROR ; Branch if no CSB for index.
CML CSB$L_CSID(R0),R3 ; Does input CSID match CSB CSID?
BNEQ ERROR ; Branch if they don't match.
.IF DIF <CSB>, R0
MOVL R0,CSB ; Move CSB to final home.
.ENDC
.ENDM CSID_TO_CSB
```

```
.SBTTL TEST_CSB_OPEN
```

```
++ This macro transfers to the address specified by the NO argument  
if the CDB pointed to by R3 is not open.
```

```
Inputs:
```

```
R3 CSB address
```

```
Outputs:
```

```
NO transfer address used when CSB is not open  
--
```

```
.MACRO TEST_CSB_OPEN NO  
CMPB CSB$B_STATE(R3), - ; Is connection open?  
#CSB$R_OPEN  
BNEQ NO ; Branch if not open.  
.ENDM TEST_CSB_OPEN
```

A dense grid of approximately 180 small technical diagrams or code snippets, organized into several columns. The diagrams are arranged in a grid pattern across the page.

Key labels and titles visible on the page include:

- ADPSUB780 LIS** (top right)
- ACKMSG LIS** (middle left)
- MCF790 SQL** (middle left)
- MCDEF MDL** (middle left)
- ADPERR750 LIS** (middle right)
- ADPSUB730 LIS** (middle right)
- CSPDEF SQL** (middle left)
- ADPERR780 LIS** (middle right)
- ADPSUB750 LIS** (middle right)
- CLUMBX SQL** (bottom left)
- CLUSTRMAR** (bottom left)
- CLUSTER SQL** (bottom left)