

NNN		NNN	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	AAAAAAAAAA		CCCCCCCCCCCC	PPPPPPPPPP	
NNN		NNN	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	AAAAAAAAAA		CCCCCCCCCCCC	PPPPPPPPPP	
NNN		NNN	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	AAAAAAAAAA		CCCCCCCCCCCC	PPPPPPPPPP	
NNN		NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNN		NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNN		NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNNNNN		NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNNNNN		NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNNNNN		NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNN	NNN	NNN	EEEEEEEEEEEE	TTT	AAA	AAA	CCC	PPPPPPPPPP	PPP
NNN	NNN	NNN	EEEEEEEEEEEE	TTT	AAA	AAA	CCC	PPPPPPPPPP	PPP
NNN	NNN	NNN	EEEEEEEEEEEE	TTT	AAA	AAA	CCC	PPPPPPPPPP	PPP
NNN	NNNNNN	NNN	EEE	TTT	AAAAAAAAAAAAAAAA	AAA	CCC	PPP	PPP
NNN	NNNNNN	NNN	EEE	TTT	AAAAAAAAAAAAAAAA	AAA	CCC	PPP	PPP
NNN	NNNNNN	NNN	EEE	TTT	AAAAAAAAAAAAAAAA	AAA	CCC	PPP	PPP
NNN	NNN	NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNN	NNN	NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNN	NNN	NNN	EEE	TTT	AAA	AAA	CCC	PPP	PPP
NNN	NNN	NNN	EEEEEEEEEEEE	TTT	AAA	AAA	CCCCCCCCCCCC	PPP	PPP
NNN	NNN	NNN	EEEEEEEEEEEE	TTT	AAA	AAA	CCCCCCCCCCCC	PPP	PPP
NNN	NNN	NNN	EEEEEEEEEEEE	TTT	AAA	AAA	CCCCCCCCCCCC	PPP	PPP

- \$
 Ps
 --
 NE

 NE

 NE

 NE

 \$R

```

NN      NN      EEEEEEEEEE  TTTTTTTTTT  DDDDDDDD  EEEEEEEEEE  FFFFFFFFFF  SSSSSSSS
NN      NN      EEEEEEEEEE  TTTTTTTTTT  DDDDDDDD  EEEEEEEEEE  FFFFFFFFFF  SSSSSSSS
NN      NN      EE           TT           DD      DD  EE           FF           SS
NN      NN      EE           TT           DD      DD  EE           FF           SS
NNNN    NN      EE           TT           DD      DD  EE           FF           SS
NNNN    NN      EE           TT           DD      DD  EE           FF           SS
NN  NN  NN      EEEEEEEEEE  TT           DD      DD  EEEEEEEEEE  FFFFFFFFFF  SSSSSS
NN  NN  NN      EEEEEEEEEE  TT           DD      DD  EEEEEEEEEE  FFFFFFFFFF  SSSSSS
NN      NNNN    EE           TT           DD      DD  EE           FF           SS
NN      NNNN    EE           TT           DD      DD  EE           FF           SS
NN      NN      EE           TT           DD      DD  EE           FF           SS
NN      NN      EE           TT           DD      DD  EE           FF           SS
NN      NN      EEEEEEEEEE  TT           DDDDDDDD  EEEEEEEEEE  FF           SSSSSSSS
NN      NN      EEEEEEEEEE  TT           DDDDDDDD  EEEEEEEEEE  FF           SSSSSSSS

```

```

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

```


.TITLE NETDEFS - Define various NETACP symbols
 .IDENT 'V04-000'

```
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```
++
FACILITY: NETWORK ACP
ABSTRACT: This module contains miscellaneous definitions used throughout
          NETACP.
AUTHOR: Alan D. Eldridge, CREATION DATE: 13-APR-1979
MODIFIED BY:
V011 RNG0011 Rod Gamache 18-Jun-1984
      Add NET$V_LOGDBR flag to NET$GL_FLAGS that indicates a data
      base entry needs to have counters logged.
V010 RNG0010 Rod Gamache 23-Feb-1984
      Add constants for ACP activity timer and AQB work
      queue entry count.
V009 TMH0009 Tim Halvorsen 18-Mar-1983
      Increase maximum size of route header by 7 to allow for
      Routing Layer padding.
V008 TMH0008 Tim Halvorsen 14-Feb-1983
      Increase maximum size of route header by 1.
V007 TMH0007 Tim Halvorsen 01-Dec-1982
      Increase symbol which defines the maximum size of a
      transport header, since Phase IV transport headers are
```

now larger.
Remove several unused symbols.

V006 TMH0006 Tim Halvorsen 13-Oct-1982
Add symbols for area routing support.

V005 TMH0005 Tim Halvorsen 01-Jul-1982
Add Phase IV routing constants.
Increase maximum number of nodes to 1024 for Phase IV,
which increases the size of the NDI vector, CHM, MIN_C_H.

V004 TMH0004 Tim Halvorsen 25-Mar-1982
Remove obsolete and unreferenced symbols NET\$C_MAXCNFSIZ,
TR\$C_PH2_RTHDR and CNF\$C_TYPE.

V02-03 ADE0003 A.Eldridge 31-Dec-1981
Delete the obsolete TR\$REQXMT and TR\$_CANCEL function codes.

V02-02 ADE0002 A.Eldridge 31-Dec-1981
Increased VMS limit on the maximum object name from 8 to 12.

V02-01 ADE0001 A.Eldridge 20-Dec-1981
Updated the \$NETSYMDEF macro to include NET\$V_TIMER.

.MACRO \$NETSYMDEF

\$DEFINI

```

$VFIELD NET,0,<-
    <SETQIO,,M>,-
    <LOGDBR,,M>,-
    <CLRCNT,,M>,-
    <DELETE,,M>,-
    <TIMER,,M>,-
    <RQIRP,,M>,-
    <UTLBUF,,M>,-
    <NOWRT_P4,,M>,-
    -
    <BYPASS,,M>,-
    <INTRNL,,M>,-
    <READ,,M>,-
    <CNFLCK,,M>,-
    -
    <OVFLW,,M>,-
    <sp2,,M>,-
    <PURGE,,M>-
>
; Define NET$GL_FLAGS bits
; Set if processing SET $QIO
; Set to log data base entry re-used
; Set to clear counters after read
; Set to detect "delete" QIO processing
; Processing is due to timer dispatching
; Regueue IRP to driver
; Utility buffer is in use
; Set if the P4 ABD buffer is not to be written
; back to user space
; Set if QIO user has "bypass" privilege
; Set if CNF access is for ACPs internal use
; Set if CNF access is for read
; Set if conditionally writeable fields
; in current CNF may not be written
; Control QIO overflowed buffer
; reserved for future use
; Set if database needs to be purged of all
; entries marked for delete.

```

\$DEFEND

```

CNFS_ADVANCE = 0
CNFS_TAKE_PREV = 1
CNFS_QUIT = 2
CNFS_TAKE_CURR = 3
; These scanner function codes should go in the
; mdl file

NETSC_MAXACFLD = 39
NETSC_MAXNODNAM = 6
NETSC_MAXLINNAM = 15
NETSC_MAXOBJNAM = 12
NETSC_MAX_OBJ = 255
NETSC_MAX_NCB = 110
NETSC_MINBUFSIZ = 192
; Max individual access field length
; Max length of nodename
; Max length of linename
; Max length of object name (VMS maximum)
; Max object number value
; Max size of an NCB
; Minimum allowed buffer size. A maximum
; sized NSP CI message is 190 bytes including
; the route-header. 192 was chosen since its
; close to 190 and was the minimum allowed for
; version 1 of DECnet-VAX

TRSC_MAXHDR = 21+7
; Max Transport route header (Phase IV)
; (allow for 7 bytes padding)

NSPSC_MAXHDR = 9
; Max overhead in NSP data message header

NETSC_TRCTL_OVR = 5
NETSC_TRCTL_CEL = 2
; Phase III Transport geometry message header size
; Phase III Transport geometry message field size for
; each node

NETSC_IPL = 8
; NETDRIVER IPL

NETSC_MAXLNK = 1023
; Max logical link index value (must be

```

```

NETSM_MAXLNKMSK = 1023      ; all 1's since its used as a mask)
                           ; Synonym for NETSC_MAXLNK
NSPSC_EXT_LNK   = 30       ; Number of extra logical link slots used to
                           ; prevent the same link index to be reused to
                           ; quickly when the current link count is near
                           ; the maximum allowed link count

NETSC_MAX_NODES = 1023     ; Max allowed node address (VMS limit)
NETSC_MAX_AREAS = 63       ; Max allowed area address (VMS limit)
NETSC_MAX_LINES = 64       ; Max allowed lines (VMS limit)

NETSC_UTLBUFSIZ = 4096

NETSC_EFN_WAIT  = 1        ; Event flag for synchronous calls
NETSC_EFN_ASYN  = 2        ; Event flag for asynchronous calls (AST's are
                           ; used to detect completion and hence only one

TRSC_PRI_RTHRU  = 31       ; Route-thru message I/O priority
TRSC_PRI_ECL    = 31       ; ECL (local) message I/O priority

TRSC_NI_PREFIX  = ^X000400AA ; Phase IV NI address prefix for Routing Layer
TRSC_NI_PROT    = ^X0360     ; Phase IV NI Routing protocol type number
TRSC_NI_ALLROU1 = ^X030000AB ; Phase IV "all routers" NI address (bytes 0-3)
TRSC_NI_ALLROU2 = ^X0000     ; (bytes 4-5)
TRSC_NI_ALLEND1 = ^X040000AB ; Phase IV "all endnodes" address (bytes 0-3)
TRSC_NI_ALLEND2 = ^X0000     ; (bytes 4-5)

NETSC_TID_RUS   = 1        ; Routing update suppression WQE timer i.d.
NETSC_TID_XRT   = 2        ; Periodic routing update WQE timer i.d.
NETSC_TID_ACT   = 3        ; Periodic ACP activity timer

NETSC_ACT_TIMER = 30       ; The NETACP activity timer interval

NETSC_MAX_WQE   = 20       ; The AQB maximum entry count

```

```

States:

```

```

The following states control the ACP transitions.

```

```

$EQLST ACP$C_STA_.,0,1,<-

```

```

<I>  -; Initializing All connects are allowed
<N>  -; On           All connects are allowed
<R>  -; Restricted  Connect initiates only
<S>  -; Shut       Soft shutdown, no new links allowed. Dismount
                           when the last link disconnects.
<F>  -; Off       Hard shutdown, break all links, clear all data
                           links, dismount.
<H>  -; Hibernate  The ACP is permanently hibernating to avoid a
                           bugcheck. A message is printed to reboot.

```

```

>
.ENDM

```


NETDEFS.MAR;1

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.END

0273 AH-BT13A-SE
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