



WORD  
WORD  
WORD  
WORD  
WORD  
WORD  
WORD  
WORD WORD

;; ---field descriptor list elided by lister---

' 324)

(/DECLARATATYPE 'SYSQUEUE ' (BYTE POINTER BYTE POINTER)

;; ---field descriptor list elided by lister---

' 6)

;; Pup things

(DECLARE%: EVAL@COMPILE

(ACCESSFNS PUP [(PUPBASE (LOCF (fetch (ETHERPACKET EPBODY) of DATUM)

[BLOCKRECORD PUPBASE ((PUPLength WORD)  
(PUPTCONTROL BYTE)  
(PUPTYPE BYTE)  
(PUPID FIXP)  
(PUPDEST WORD)  
(PUPDESTSOCKET FIXP)  
(PUPSOURCE WORD)  
(PUPSOURCESOCKET FIXP)  
(PUPDATASTART 266 WORD))

(BLOCKRECORD PUPBASE ((NIL WORD)  
(TYPEWORD WORD)  
(PUPIDHI WORD)  
(PUPIDLO WORD)  
(PUPDESTNET BYTE)  
(PUPDESTHOST BYTE)  
(PUPDESTSOCKETHI WORD)  
(PUPDESTSOCKETLO WORD)  
(PUPSOURCENET BYTE)  
(PUPSOURCEHOST BYTE)  
(PUPSOURCESOCKETHI WORD)  
(PUPSOURCESOCKETLO WORD)) ; Temporary extra synonyms

(SYNONYM PUPDESTNET (DESTNET))  
(SYNONYM PUPDESTHOST (DESTHOST))  
(SYNONYM PUPDESTSOCKETHI (DESTSKTHI))  
(SYNONYM PUPDESTSOCKETLO (DESTSKTLO))  
(SYNONYM PUPSOURCENET (SOURCENET))  
(SYNONYM PUPSOURCEHOST (SOURCEHOST))  
(SYNONYM PUPSOURCESOCKETHI (SOURCESKTHI))  
(SYNONYM PUPSOURCESOCKETLO (SOURCESKTLO))

(SYNONYM PUPDEST (DEST))  
(SYNONYM PUPDESTSOCKET (DESTSKT))  
(SYNONYM PUPSOURCE (SOURCE))  
(SYNONYM PUPSOURCESOCKET (SOURCESKT))

(ACCESSFNS PUPDATASTART ((PUPCONTENTS (LOCF DATUM)  
[ACCESSFNS PUP [(PUPCHECKSUMBASE (fetch PUPBASE of DATUM))  
(PUPCHECKSUMLOC (\ADDBASE (fetch PUPBASE of DATUM)  
(FOLDLO (SUB1 (fetch PUPLength of DATUM))  
BYTESPERWORD])  
(BLOCKRECORD PUPCHECKSUMLOC ((PUPCHECKSUM WORD]  
(TYPE? (type? ETHERPACKET DATUM))

[ACCESSFNS ERRORPUP ((ERRORPUPBASE (fetch PUPCONTENTS of DATUM))

(BLOCKRECORD ERRORPUPBASE ((ERRORPUPCOPY 10 WORD) ; Copy of pup header  
(ERRORPUPCODE WORD)  
(ERRORPUPARG WORD) ; Usually zero  
(ERRORPUPSTRINGBASE WORD) ; Human readable message

]

(ACCESSFNS PUPADDRESS ((PUPNET# (LRSH DATUM 8))  
(PUPHOST# (LOGAND DATUM 255)))  
(CREATE (IPLUS (LLSH PUPNET# 8)  
PUPHOST#)))

(DECLARE%: EVAL@COMPILE

(PUTPROPS \LOCALPUPADDRESS MACRO (NIL \LOCALPUPNETHOST))

(PUTPROPS \LOCALPUPHOSTNUMBER MACRO (NIL (fetch PUPHOST# of \LOCALPUPNETHOST)))

(PUTPROPS \LOCALPUPNETNUMBER MACRO (NIL (fetch PUPNET# of \LOCALPUPNETHOST)))

)

```
(DECLARE%: EVAL@COMPILE
(RPAQQ \PUPOVLEN 22)
(RPAQQ \MAX.PUPDATALENGTH 532)
(CONSTANTS (\PUPOVLEN 22)
(\MAX.PUPDATALENGTH 532))
)
```

```
(RPAQQ PUPERRORCODES
((\PUPE.CHECKSUM 1)
(\PUPE.NOSOCKET 2)
(\PUPE.SOCKETFULL 3)
(\PUPE.GATEWAY.BADPUP 513)
(\PUPE.NOROUTE 514)
(\PUPE.NOHOST 515)
(\PUPE.LOOPED 516)
(\PUPE.TOOLARGE 517)
(\PUPE.WRONG.GATEWAY 518)
(\PUPE.GATEWAYFULL 519)))
```

```
(DECLARE%: EVAL@COMPILE
(RPAQQ \PUPE.CHECKSUM 1)
(RPAQQ \PUPE.NOSOCKET 2)
(RPAQQ \PUPE.SOCKETFULL 3)
(RPAQQ \PUPE.GATEWAY.BADPUP 513)
(RPAQQ \PUPE.NOROUTE 514)
(RPAQQ \PUPE.NOHOST 515)
(RPAQQ \PUPE.LOOPED 516)
(RPAQQ \PUPE.TOOLARGE 517)
(RPAQQ \PUPE.WRONG.GATEWAY 518)
(RPAQQ \PUPE.GATEWAYFULL 519)
(CONSTANTS (\PUPE.CHECKSUM 1)
(\PUPE.NOSOCKET 2)
(\PUPE.SOCKETFULL 3)
(\PUPE.GATEWAY.BADPUP 513)
(\PUPE.NOROUTE 514)
(\PUPE.NOHOST 515)
(\PUPE.LOOPED 516)
(\PUPE.TOOLARGE 517)
(\PUPE.WRONG.GATEWAY 518)
(\PUPE.GATEWAYFULL 519))
)
```

:: XIP things

```
(DECLARE%: EVAL@COMPILE
(ACCESSFNS XIP [(XIPBASE (LOCF (fetch (ETHERPACKET EPBODY) of DATUM)
[BLOCKRECORD XIPBASE ((XIPCHECKSUM WORD)
(XIPLLENGTH WORD)
(XIPTCONTROL BYTE)
(XIPTYPE BYTE)
(XIPDESTNET FIXP)
(XIPDESTWORD1 3 WORD)
(XIPDESTSOCKET WORD)
(XIPSOURCENET FIXP)
(XIPSOURCEWORD1 3 WORD)
(XIPSOURCEWORD1 3 WORD)
(XIPFIRSTDATAWORD WORD) ; Start of data
)
[ACCESSFNS XIPLLENGTH ((XIPCHECKSUMBASE (LOCF DATUM)
[ACCESSFNS XIPFIRSTDATAWORD ((XIPCONTENTS (LOCF DATUM)
[ACCESSFNS XIPSOURCEWORD1 ((XIPSOURCEHOST (\LOADNSHOSTNUMBER (LOCF DATUM))
(\STORENSHOSTNUMBER (LOCF DATUM)
NEWVALUE]
[ACCESSFNS XIPDESTWORD1 ((XIPDESTHOST (\LOADNSHOSTNUMBER (LOCF DATUM))
(\STORENSHOSTNUMBER (LOCF DATUM)
NEWVALUE]
[ACCESSFNS XIPSOURCENET ((XIPSOURCENSADDRESS (\LOADNSADDRESS (LOCF DATUM))
(\STORENSADDRESS (LOCF DATUM)
NEWVALUE]
(ACCESSFNS XIPDESTNET ((XIPDESTNSADDRESS (\LOADNSADDRESS (LOCF DATUM))
```

(\STORENSADDRESS (LOCF DATUM) NEWVALUE]

(TYPE? (type? ETHERPACKET DATUM))

[ACCESSFNS ERRORXIP ((ERRORXIPBASE (fetch XIPCONTENTS of DATUM)) (BLOCKRECORD ERRORXIPBASE ((ERRORXIPCODE WORD) (ERRORXIPARG WORD) (ERRORXIPBODY WORD)

; As many words of offending XIP as sender felt like including...

]

(TYPERECORD NSHOSTNUMBER (NSHOST0 NSHOST1 NSHOST2))

[DATATYPE NSADDRESS ((NSNET FIXP) (NSHNM0 WORD) (NSHNM1 WORD) (NSHNM2 WORD) (NSSOCKET WORD)) (ACCESSFNS (NSHOSTNUMBER (\LOADNSHOSTNUMBER (LOCF (fetch NSHNM0 of DATUM))) (\STORENSHOSTNUMBER (LOCF (fetch NSHNM0 of DATUM) NEWVALUE))) (BLOCKRECORD NSADDRESS ((NSNETHI WORD) (NSNETLO WORD]

(DATATYPE NSNAME ((NSOBJECT POINTER) (NSDOMAIN POINTER) (NSORGANIZATION POINTER)) (\* Canonical three-part Clearinghouse name)

)

(/DECLAREDATATYPE 'NSADDRESS ' (FIXP WORD WORD WORD WORD) ;; ---field descriptor list elided by lister--- ' 6)

(/DECLAREDATATYPE 'NSNAME ' (POINTER POINTER POINTER) ;; ---field descriptor list elided by lister--- ' 6)

(DECLARE%: EVAL@COMPILE

(RPAQQ \XIPOVLEN 30)

(RPAQQ \MAX.XIPDATALENGTH 546)

(CONSTANTS (\XIPOVLEN 30) (\MAX.XIPDATALENGTH 546))

)

(RPAQQ XIPERRORCODES ((\XIPE.CHECKSUM 1) (\XIPE.NOSOCKET 2) (\XIPE.SOCKETFULL 3) (\XIPE.GATEWAY.CHECKSUM 513) (\XIPE.NOROUTE 514) (\XIPE.LOOPED 515) (\XIPE.TOOLARGE 516)))

(DECLARE%: EVAL@COMPILE

(RPAQQ \XIPE.CHECKSUM 1)

(RPAQQ \XIPE.NOSOCKET 2)

(RPAQQ \XIPE.SOCKETFULL 3)

(RPAQQ \XIPE.GATEWAY.CHECKSUM 513)

(RPAQQ \XIPE.NOROUTE 514)

(RPAQQ \XIPE.LOOPED 515)

(RPAQQ \XIPE.TOOLARGE 516)

(CONSTANTS (\XIPE.CHECKSUM 1) (\XIPE.NOSOCKET 2) (\XIPE.SOCKETFULL 3) (\XIPE.GATEWAY.CHECKSUM 513) (\XIPE.NOROUTE 514) (\XIPE.LOOPED 515) (\XIPE.TOOLARGE 516))

)

(PUTPROPS ETHERRECORDS COPYRIGHT ("Venue & Xerox Corporation" 1983 1984 1985 1987 1990 1992 1993))

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**CONSTANT INDEX**

\MAX.PUPDATALENGTH .....3	\PUPE.NOHOST .....3	\PUPOVLEN .....3	\XIPE.SOCKETFULL .....4
\MAX.XIPDATALENGTH .....4	\PUPE.NOROUTE .....3	\XIPE.CHECKSUM .....4	\XIPE.TOOLARGE .....4
\PUPE.CHECKSUM .....3	\PUPE.NOSOCKET .....3	\XIPE.GATEWAY.CHECKSUM ..4	\XIPOVLEN .....4
\PUPE.GATEWAY.BADPUP ...3	\PUPE.SOCKETFULL .....3	\XIPE.LOOPED .....4	
\PUPE.GATEWAYFULL .....3	\PUPE.TOOLARGE .....3	\XIPE.NOROUTE .....4	
\PUPE.LOOPED .....3	\PUPE.WRONG.GATEWAY .....3	\XIPE.NOSOCKET .....4	

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**RECORD INDEX**

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ERRORXIP .....4	NSADDRESS .....4	NSNAME .....4	PUPADDRESS ....2	SYSQUEUE .....1	

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**MACRO INDEX**

\LOCALPUPADDRESS .....2	\LOCALPUPHOSTNUMBER .....2	\LOCALPUPNETNUMBER .....2
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**VARIABLE INDEX**

PUPERRORCODES .....3	XIPERRORCODES .....4
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