```
28-Apr-88 17:29:39 {ERIS}<CUTTING>RPC>RPCSTRUCT.;4
 File created:
  changes to:
                   (IL: VARS IL: RPCSTRUCTCOMS)
                   (IL:STRUCTURES RPC-STREAM)
                   (FILE-ENVIRONMENTS IL: RPCSTRUCT)
previous date:
                   15-Oct-87 18:49:03 {ERINYES}
  Read Table:
                   XCL
     Package:
                   RPC2
        Format:
                     XCCS
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(IL:RPAQQ IL:RPCSTRUCTCOMS ((IL:PROPS (IL:RPCSTRUCT IL:MAKEFILE-ENVIRONMENT IL:FILETYPE))
                                         (IL:STRUCTURES RPC-PROGRAM RPC-PROCEDURE RPC-STREAM AUTHENTICATION)))
(IL:PUTPROPS IL:RPCSTRUCT IL:MAKEFILE-ENVIRONMENT (:READTABLE "XCL" :PACKAGE "RPC2"))
(IL:PUTPROPS IL:RPCSTRUCT IL:FILETYPE : COMPILE-FILE)
(DEFSTRUCT RPC-PROGRAM
    Structure describing a Sun RPC Protocol Remote Program.
                                                                                          RPC Program Number
    (NUMBER 0 : TYPE INTEGER)
                                                                                          RPC Version Number
    (VERSION 0 : TYPE INTEGER)
                                                                                          String or Symbol. This name is used only by this program and
    NAME
                                                                                          has no significance to the remote program. The name is
                                                                                          assumed to uniquely specify an RPC structure. A symbol. Either RPC::UDP or RPC::TCP.
   PROTOCOL
                                                                                          List of (<constant> <def>) pairs.
List of (<typename> <typedef>) pairs
List of names of RPC names whose types and constants are
    CONSTANTS
    TYPES
    INHERITS
                                                                                          inherited by this RPC.
List of RPC-PROCEDURE structures defining the procedures
   PROCEDURES
                                                                                          ; for this remote program.
    )
(DEFSTRUCT RPC-PROCEDURE
    "Strcture defining a single procedure of a SUN RPC Protcol remote program.
    NAME
                                                                                          The procedure name. A string or symbol.
    (PROCNUM 0 : TYPE INTEGER)
                                                                                          The procedure number. An integer.
                                                                                          List of argument types. May be typenames or typedefs. NIL for
    ARGTYPES
                                                                                          no arguments
                                                                                          Same as ARGTYPES except for returned values.
    RESULTTYPES
(DEFSTRUCT RPC-STREAM
                                                                                          remote procedure calls" UDP, TCP, or STRING
    "Holds info and functions for encoding, decoding and executing
    PROTOCOL
                                                                                           Local IP Socket
    IPSOCKET
                                                                                          Incoming (Reply) Stream or Packet
    INSTREAM
                                                                                          Byte Pointer to current position in incoming data. For UDP it is
    INBYTEPTR
                                                                                          the byte pointer in the UDP packet. For TCP it is decremented,
                                                                                          saying how many bytes left in this RM record before another
                                                                                          RM header must be read.
                                                                                          UDP outgoing packet, or outgoing stream used by TCP and
    OUTSTREAM
                                                                                          STRING.
                                                                                          Byte Pointer to current position in outgoing string used to build RM record for TCP. See page 10 of "Remote Procedure Call Protocol Specification" for details of the RM 'Record Marking
    OUTBYTEPTR
                                                                                          Standard'.
                                                                                          Used by TCP to encode as string before sending
Function to read byte of incoming data
Function to do bulk read of incoming data
Function to get 32 bit two's complement integer of incoming
data. Would be better to have 32 bit unsigned as the primitive
Get current offset into incoming data
    OUTSTRING
    GETRYTE
    GETBYTES
    GETCELL
    GETOFFSET
                                                                                          Get current offset into incoming data.
                                                                                          Function to write byte of outgoing data
    PUTBYTE
                                                                                          Function to do bulk write of outgoing data.
    PUTBYTES
                                                                                          Function to write 32 bit two's complement integer of outgoing
    PUTCELL
                                                                                          data.
                                                                                          Set current position in incoming data.
    PUTOFFSET
    PRIVATE
                                                                                          Can be used by user as desired
    OS-DESTADDR
                                                                                          Address of the destination. Only used by os-networking.
```

```
(DEFSTRUCT AUTHENTICATION

"Sun RPC Version 2 Authentication Record"

TYPE

; 0 = NULL
; 1 = Unix
; 2 = Short
; Encoding of any fields of that type authentication. String is a
; Common Lisp string rather than an XDR-STRING.
)

(IL:PUTPROPS IL:RPCSTRUCT IL:COPYRIGHT ("Stanford University and Xerox Corporation" 1987 1988))
```

{MEDLEY}spusers>RPCSTRUCT.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:14:50 --

STRUCTURE INDEX			
AUTHENTICATION2	RPC-PROCEDURE1	RPC-PROGRAM1	RPC-STREAM1
PROPERTY INDEX			
IL:RPCSTRUCT1			