Initial Connection Protocol Control Commands

The following is my interpretation of the exchange between NCP's which would be necessary to carry out the Initial Connection Protocol of RFC #123. (This note corrects an error pointed out by Eric Harssen of RAND)

Server NCP

Listen for Connection on L
STR, L, U, 32

Send 32 bits of data in 1 message on link \( \ell_A \)

(value is S)

CLS, L, U
STR, S+1, \( \ell_B \)
RTS, S, U+1, \( \ell_B \)
wait for connection
ALL, \( \ell_B \), \( m_B \), \( b_B \)

User NCP

RTS, U, L, \( \ell_A \)
ALL, \( \ell_A \), 1, 32

Receive 32 bits of data from link \( \ell_A \) (value is S)
CLS, U, L
STR, U+1, S, \( \ell_u \)
RTS, U, S+1, \( \ell_c \)
wait for connection
ALL, \( \ell_c \), \( m_c \), \( b_c \)

data sent on link \( \ell_c \)

data received on link \( \ell_B \)

\( \ell_A, \ell_B, \) and \( \ell_c \) are links, \( m_B \) and \( m_c \) are message allocations, \( b_B \) and \( b_c \) are bit allocations, and all other symbols are as defined in RFC #123.