Modifications to Xlogout

By Douglas Lyon

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IMAGE PROCESSING LABORATORY

Electrical, Computer, and Systems Engineering Department Rensselaer Polytechnic Institute Troy, New York 12181 RPI Image Processing Laboratory COMPUTER DOCUMENTATION

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TITLE:

Modifications To Xlogout.

ABSTRACT:

Two bugs in the Xlogout program are found and corrected. One bug in the Xlogout program leads to a change of procedure in running the account editing program.

DESCRIPTION:

Bug in time of day factor

In order to change the time of day rates for terminals the rate code has been modified to reflect the 9:00 AM rates. This was done for all week days (Monday-Friday). This is reflected in the single line in the rates subroutine in the xlogout.rat file:

for (i=2;i<7;i=i+1) {rdfact(9,i) = 1.0}

Where "i" is varied from 2 to 6 to index into the Monday through Friday portion of the array (Sunday is day 1). The rdfact array is a real*8 array which is equivalenced with the Bufrat array. Bufrat is an I*2 array which is 1024 elements long. A bug in the account editing software is suspected as the cause for the rdfact array inconsistency but the bug has yet to be uncovered.

Bug in terminal line charge

In this bug the dial-up line charges were being assigned to the wrong terminal lines. Here the record was correctly read from the Bufrat array but incorrectly interpreted by the xlogout program. The following incorrect line of code was found:

adj_term=rtfact(usr_(xnumbr)-1)

Here the xnumbr is an index into a user record array which shows which terminal line is being used by which user. This was decremented by 1 for reasons unknown. This number was then used as an index into the rtfact array. Rtfact gives the connect charge line rate as a real*8 number which is used to scale the line charges in order to derive an adjusted terminal time (adj_term). The following correction was introduced:

adj_term=rtfact(usr_(xnumbr))

This has been verified to work correctly and should be transparent to the accounting software.

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Douglas Lyon

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