A/UX 3.0 and stropen: out of streams Message

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TOPIC ---

I have a customer running A/UX 3.0 who is frequently getting "stropen out
of streams" messages on his console window. He has not been able to
correlate these messages appearing to any particular activity or
application program. He has already doubled the NSTREAM and NQUEUE
parameters from their defaults, and is still getting these messages.

He's also getting a "fcntl: Local lock-manager not registered" message
after booting showing up in the console window.

His hardware configuration is: Quadra 950 with an external Maxtor drive and
an external La Cie DAT drive. The monitor is Apple 21" using built-in video.
No additional cards. There's a StyleWriter on the printer port, and a
Telebit QBlazer on the modem port.

Here is what kconfig -a says:

```
NBUF          =            0
NPBUF         =           20
NFILE         =         1024
NINODE        =         1024
NSPTMAP       =           75
NCALL         =          100
NMOUNT        =           10
NFLOCK        =          200
NREGION       =          300
NPROC         =          100
NCLIST        =          400
MAXUP         =           50
VHNDFRAC      =           16
MAXPMEM       = 0x00000000
NMBUFS        =         1000
NPTY          =           32
MAXCORE       = 0x00030000
MAXHEADER     = 0x00000800
NSTREAM       =           64
NQUEUE        =          512
NBLK4096      =           30
```

```
NBLK2048     =              8
NBLK1024     =             64
NBLK512      =             64
NBLK256      =             64
NBLK128      =             64
NBLK64       =             64
NBLK16       =            128
NBLK4        =            256
SBUFSIZE     =           2048
SLICE        =              5
GETPGSLOW    = 0x00000060
GETPGSHI     = 0x00000080
GETPGSMSK    = 0x00000009
VHANDR       =              2
MAXSC        = 0x00000008
MAXFC        = 0x00000064
MAXUMEM      = 0x00040000
NUMAP        =             10
MINARMEM     = 0x0000000a
MINASMEM     = 0x0000000a
FLCKREC      =            200
FLCKFIL      =             50
CDLIMIT      = 0x01000000
CMASK        = 0x00000000
ROOTDEV      = 0x0000ffff
SWAPDEV      = 0x0000ffff
PIPEDEV      = 0x0000ffff
DUMPDEV      = 0x0000ffff
SWAPLO       =              0
SWAPCNT      =              0
```

DISCUSSION ---

The "stropen: out of streams" is a fatal error message. It indicates that
there is not enough memory to set up and run streams in A/UX.

We suggest that the customer either add more physical RAM to the system, or
(not recommend) reduce some kernel memory parameters like NBUF, NFILE,
NINODE, NSTREAM, NQUEUE, ... etc. with 'kconfig'.

The "fcntl: Local ..." message is the result from the first message.

On a Quadra 950, 8MB of physical RAM is the minimum for a single user as
long as you are not networking. 16MB to 20MB of physical RAM will allow
greater functionality and generally provide the memory you need.
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