http://groups.google.com/d/topic/comp.dcom.modems/oQxiZ9m8M9c/discussion comp.dcom.modems > checkblazer.c -- get spectrum data from last connection 1 post by 1 author Steve Murphy 4/21/88 Here's something (checkblazer.c) maybe someone might find useful. Enjoy. --murf #include <sys/types.h> #include <signal.h> #include <setjmp.h> #include <stdio.h> #ifdef USG #include <termio.h> #endif #ifndef USG #include <sgtty.h> #endif #include <sys/stat.h>
#define OUTPUTDIR "/usr/spool/uucp" #define DEFSTARTSPEED EXTA /* A program to grab Telebit TrailBlazer Status Data and dump to ascii files */ /* by Steve Murphy */ /* Some say the globals, etc. seem similar to some used in a particular version of uucp. This is, of course, purely accidental, but those with discernment may be able to take advantage of this accident. People with discernment usually take advantage of "accidents". Wouldn't it be nice if, while closing the modem in uucp, you generated data files that showed the status of the connection? */ /* For the rest of us: this little standalone will, IF the proper command line args are supplied, IF the modem is set up with just the right defaults in its regs, (I have E0 F1 M1 Q6 T V1 X3, and s51=5, for example) extract all the S70 type registers revealing the status of the last connection made, fast or slow (depending on the regs) */ /* This data is dumped out to files in x,y pairs suitable for progs like gnuplot, or just echoed back to the user if non-array oriented. */ /* I developed my own hp7475A interface to GNUPLOT and use it to generate nice-looking and informative pen-plots of connections. This info is really informative at times about what kind of problems I'm seeing. */ /* here's an example GNUPLOT.INI.telebit file to display the files generated on an hp pen plot: set term hp74 set samples 2048 set output "hp.noise.telebit" plot [0:4000] [-80:10] "blazer_noise.telebit" with lines, "blazer_rbits.telebit" with impulses, "blazer_tbits.telebit" with lines quit This will display the noise profile on the bottom and the two bitrates overlay each other above. Because This generates several files if run with several sys names, I generated a pile of these GNUPLOT.INI files, AND I have a generic GNUPLOT.INI submitter:

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echo \$argv[1] cp GNUPLOT.INI.\$argv[1] .gnuplot gnuplot And, of course, a lpr -Php hp.noise.telebit (in this case) would be the next thing (go stick paper in the plotter first!) Now, some clever person could do this much more neatly with sed scripts, I'm sure. Have at it. Have fun. Go for it. */ /* As usual, This will most likely require modification to run on your modems. I set up my registers like few others on the net, because of constraints beyond my control. I doubt that this will work on anything but sun 3's. Releasing even this peice of junk is charity on my part; Don't bother me with anything but something better -- I didn't generate this for money, really, and so I really can't support it either. It may be a little work for you to make it run, but hey, I think I did more than you, OK? Purpose: For those who want to grab this kind of data bad enough to make this work, but not bad enough, obviously, to write their own from scratch Encouragement: This code actually runs on my machine (sun3/160) with my OS (SunOS3.2) with my modems (Telebit Trailblazer Plus, rev 3 roms. */ jmp_buf Sjbuf; jmp_buf Pipebuf; #define STBNULL 0 #define CF DIAL 5 #define BAND (4000.0/512.0) int blazer_slow=0, blazer_fast = 0; int onesys = 0;int turntime = 30 * 60;/* 30 minutes expressed in seconds */ char *ttyn = NULL; extern int errno; char devSel[200], Rmtname[200]; #ifdef USG struct termio Savettyb; #endif #ifndef USG struct sgttyb Savettyb; #endif alarmtr() ł signal(SIGALRM, alarmtr); longjmp(Sjbuf, 1); } expect(str,fd) char *str; { char *p = str; char bug[10]; if (setjmp(Sjbuf)) { fprintf(stderr, "TIMEOUT\n"); return CF DIAL; signal(SIGALRM, alarmtr); alarm(10); again: while(*p && read(fd,bug,1) == 1 && *p == bug[0]) p++; if (!*p) ł alarm(0);

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```
else
        ł
                 p = str;
                goto again;
        }
}
logent( what, arg1,arg2,arg3,arg4)
char *what,*arg1,*arg2,*arg3,*arg4;
ł
        FILE *lo;
        char buff[300];
/*
           lo = fopen("/usr/spool/uucp/LOGFILE","a"); For those who enjoy permanent
records
        if( !lo )
                 return; */
        sprintf(buff,what,arg1,arg2,arg3,arg4);
        printf(buff);
/*
          fprintf(lo,"checkblazer: %s",buff); to go a log file
        fclose( lo ); */
        return;
}
main(argc, argv)
int argc;
register char *argv[];
ł
        int seq,localbits,Ifn;
        char *q, tty_port[100];
        if (argc < 4)
        {
                 fprintf(stderr,"usage: checkblazer SLOW|FAST device label\n");
                 exit(0);
        Ifn = setreuid(geteuid(),geteuid());
        if( Ifn )
         {
                 logent("Couldn't setuid to %d\n",geteuid());
        Ifn = setregid(getegid(),getegid());
        if( Ifn )
        {
                 logent("Couldn't setgid to %d\n",getegid());
        }
        ttyn = tty_port;
        if( !strcmp(argv[1], "SLOW") || !strcmp(argv[1], "slow") )
                blazer_slow = 1;
        else
                blazer_fast =1;
        strcpy(tty_port,argv[2]);
        strcpy(Rmtname,argv[3]);
        if( ttyn )
                strcpy(devSel, ttyn);
        else
                 strcpy(devSel,"");
        cleanup(0);
}
cleanup(code)
        int dh = -1;
        char dcname[40];
        sleep(2);
        strcpy(dcname,devSel);
        if (setjmp(Sjbuf))
        ł
                 logent( "TIMEOUT\n");
                 return CF DIAL;
        signal(SIGALRM, alarmtr);
```

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```
alarm(0);
        /* modem is open */
        if (dh \ge 0)
        {
                 char spdy[30];
#ifdef
              USG
                 ioctl(dh, TCGETA, &Savettyb);
                 Savettyb.c_cflag = (Savettyb.c_cflag & ~CS8) | CS7;
                Savettyb.c_oflag |= OPOST;
Savettyb.c_lflag |= (ISIG|ICANON|ECHO);
#else !USG
                ioctl(dh, TIOCGETP, &Savettyb);
Savettyb.sg_flags |= ECHO;
                 Savettyb.sg_flags &= ~RAW;
                 Savettyb.sg_ispeed = Savettyb.sg_ospeed = DEFSTARTSPEED;
                 (void) ioctl(dh, TIOCHPCL, STBNULL);
#endif !USG
#ifdef
              USG
                 ioctl(dh, TCSETA, &Savettyb);
#else
              !USG
                 ioctl(dh, TIOCSETP, &Savettyb);
#endif !USG
                 sleep(1);
                 if( blazer_slow )
                         blazer status slow(dh);
                 if( blazer_fast )
                         blazer_status_fast(dh);
                 close(dh);
                 if( !strcmp("/dev/cua",devSel)
                         strcpy(spdy,"/dev/ttya");
                 else
                         strcpy(spdy,"/dev/ttyb");
        élse
        ł
                 logent("CAN'T OPEN %s\n",dcname);
                 exit(dh);
        }
}
blazer status slow(fd)
ł
        char *cp,sss[300],qqq[100],*cq;
        char freq_offset[40],line_qual[40];
        int i;
        write(fd, "ATS77?\r", 7);
        /* freq offset */
        cp = freq_offset;
        while (read(fd, cp, 1) == 1)
        ł
                if (*cp > 0x20 )
                         break;
        while (++cp < &freq_offset[39] && read(fd, cp, 1) == 1
                   && *cp != '\n')
                ;
        cq = qqq -1;
        *cp-- = '\0';
        if (*cp == '\r')
*cp = '\0';
        /* line quality */
        write(fd, "ATS78?\r", 7);
        cp = line_qual;
        while (read(fd, cp, 1) == 1)
        {
                 if (*cp > ' ')
                         break;
        while (++cp < &line_qual[39] && read(fd, cp, 1) == 1
```

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```
cq = qqq;
       while (++cq < &qqq[99] && read(fd, cq, 1) == 1 /* collect OK */</pre>
                  && *cq != '\n')
       *cp-- = '\0';
       if (*cp == '\r')
               *cp = '\0';
       sprintf(sss, "Modem reports freq offset=%s, Line Quality=%s\n",
                      freq_offset,line_qual);
       logent( sss );
}
blazer_status_fast(fd)
ł
       char freq_offset[40],line_qual[40],tdr[20],rdr[20],retrans[20],
       packacc[20];
       char *cp,sss[300],*cq,qqq[100];
       double noise[512];
       struct sgttyb model;
       int i,bitpersec[512];
       /* freq offset */
       write(fd, "ATS77?\r", 7);
syncup:
       cp = freq_offset;
       while (read(fd, cp, 1) == 1)
       ł
               if (*cp > ' ')
                      break;
       while (++cp < &freq_offset[39] && read(fd, cp, 1) == 1
                  && *cp != '\n')
       if( freq_offset[0] != '+' && freq_offset[0] != '-')
               goto syncup;
sync 1:
       cq = qqq-1;
       ;
       if( strcmp(qqq,"OK\n") )
               goto sync_1;
       *cp-- = '\0';
       if (*cp == '\r')
               *cp = '\0';
       /* transmit data rate */
       write(fd, "ATS70?\r", 7);
       cp = tdr;
       while (read(fd, cp, 1) == 1)
        ł
               if (*cp > ' ')
                      break;
       while (++cp < &tdr[19] && read(fd, cp, 1) == 1
                  && *cp != '\n')
               ;
sync_2:
       cq = qqq-1;
       ;
       if( strcmp(qqq,"OKn") )
              goto sync_2;
       *cp-- = '\0';
       if (*cp == '\r')
               *cp = '\0';
       /* receive data rate */
       write(fd, "ATS72?\r", 7);
       cp = rdr;
       while (read(fd, cp ,1) == 1)
       ł
               if (*cp > ' ')
                      break;
       }
                  < cmdm[10] cc mood/fd on 1) --</pre>
```

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