

Rate Steps as Forbidden Knowledge by Cheshire Catalyst

On a recent trip to Vermont, I was reading the front pages of the local telephone directory. I noticed some information there that I did not recognize from my directory in the Great Metropolitan of New York. This was surprising, and so I thought that many other TAP subscribers might consider it Forbidden Knowledge also. It was a list of milage's between Bell system Rate Steps.

Table with 2 columns: Rate Step, Number of Miles. Rows 1-11 showing distances from 1-10 to 4251-5750.

Rate Steps 10 and 11 are farther than calls within the contiguous 48 states can go, and are used only on calls to Alaska & Hawaii. Rate Steps within individual states are set by the Public Utilities Commission in each state. Write to the PUC in your State Capitol, and ask for the rate steps within your state. It makes for some interesting reading. It also upsets them that someone takes an interest in such things.

The Bell System computes the Airline Milages between central offices by giving each CO a V & H (Vertical and Horizontal) grid co-ordinate. By feeding the V&H co-ordinate into an equation, you can derive any airline distance. A program in Basic to do this would read as follows:

```
110 DATA NEW YORK,4997,1406
120 DATA SAN FRANCISCO,8492,8719
130 DATA CHICAGO,5986,3426
140 DATA WASH DC,5622,1583
150 DATA ATLANTA,7260,2083
160 DATA BOSTON,4422,1249
170 DATA LOS ANGELES,9213,7878
180 DATA MIAMI,8351,0527
190 DATA SEATTLE,6336,8896
200 READ A1$,V1,H1
210 READ A2$,V2,H2
220 PRINT "THE DISTANCE FROM ";A1$;
230 PRINT " TO ";A2$; " IS ";
240 PRINT SQR((V1-V2)^2/10 + (H1-H2)^2/10);
250 PRINT " MILES";
260 A1$=A2$:V1=V2:H1=H2
270 GOTO 210
999 END
```

This program will end on an error condition "End of Data", or something similar. This is a "quick & dirty" program to get the job done. You can clean it up as you like.

If anyone wants the V&H of any telephone exchange, write to me at TAP with a stamped, addressed envelope for me to reply with. I'll look it up from my hard copy, & send it to you. There's talk of doing a book on this subject, complete with the programs, and where to find remote facilities to handle this stuff. Write if you're interested in more info. Bell has the V&H info on Mag Tape for you folks with "real" computer facilities (Apples can't handle "real" mag-tape yet). If you need the address of where to order the tape (at \$125.00 per) just let me know.

Inmates were making money

RICHMOND. — Inmates apparently have been counterfeiting \$100 bills in the Virginia State Penitentiary print shop, state and federal officials say. Several of the counterfeit bills were passed in Richmond stores earlier this week, a Secret Service agent said yesterday. "The Virginia Department of Corrections has uncovered evidence that bogus currency is being produced in the print shop," said State Corrections Director R.K. Proctor. "There are aspects," said William Sutherland, special agent in charge of the Richmond office of the Secret Service. "They're people inside (the penitentiary) and outside the prison system."

MOUSE MEN WITH ALARMS

The Stainless Steel Rat

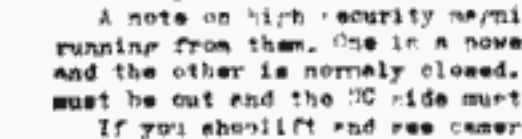
A fact I forgot to mention in my previous alarm articles is that one can also use polyurethane foam in a bell (as with hardware store as insulation) to silence horns and bells. It is easier to handle and dries faster.

Many people that travel carry a pocket alarm with them. This alarm is a small device that has a range around the door knob, and when someone touches the knob his body capacitance sets the alarm off. These nasty nuisances can be found by walking down the hall of a hotel and touching all the door knobs.

If you happen to find one, attach a 3' length of wire or other metal object to the knob. This will cause the steady buzz-ness of the alarm to break down the wiring in and call room service for help and all sorts of fun and games will ensue.

Some high-security installations use keypads just like Touch-Tone pads (a registered trade mark of Bell System) to open locks or disarm alarms. Most use three or four digits. To figure out the code write the keypad free from all fingerprints. After it has been used just apply finger print dust and all four digits will be marked by fingerprints. Now all you have to do is figure out the order. However, the pad must be dusted before the alarm is rearmed since the rearm combination is usually different and will cause extra digits to show up. If you want to have some fun with a keypad try pushing the # and \* at the same time. Many units use this as a panic button. This will bring the owner and the cops running and everyone will have a good time. Never try to remove the battery, as they all have magnetic reeds.

On the subject of holdups most places (including super-markets, liquor stores, etc.) have what is known as a money drawer. Money drawers are placed at the bottom of a money drawer and when the last few bills are withdrawn a switch closes and sets the alarm off. There's why when you make your withdrawal it is best to tell yourself to you can check for these clips. See the diagram for more details.

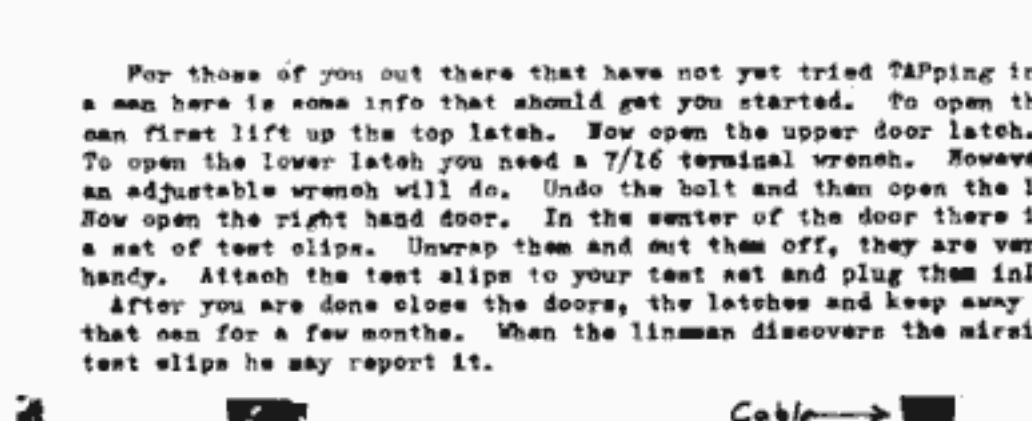


- Money Clip
- Set Holdup Device in the Where Cash is Handled
- Removal of Last Bills Initiates Quiet, Positive Switch Action

If you see one or two bills are slipped under the arm (A), if they are pulled out at points B or the bottom bill (D) will be also pulled out. However, if the bill is pulled out at point C the last two will stay in the clip. If you see pulling bills and see a light like C...

A note on high security magnetic switches. Some have three wires coming from them. One is a power line. Another is normally open and the other is normally closed. To bypass this MD contact must be out and the MD side must be jumped to the power contact. If you bypass this contact, look at the head. If it is Surveillance Video Systems (SVS) you need not worry. These cameras are fakes. They are sensitive to the point of pilot lights, noise and scanning. However they are only empty boxes.

Another variation. Vibration sensors can be fooled. On plans one can dampen the vibrations by prying blocks of rubber around the sensor.



These pictures do not show the built in chair that most men have. For those of you that play in areas regularly it may be worth your while to get a Bell System chair. It is used by lifeguards when it is very cold or windy. It is a small tent made of heavy canvas and is suspended from the ceiling. Heavy lines they are left set up over nights. How it is definitely in your best interest to pick one up if you see one that has been accidentally left by the roadside. If you can't find a "lost tent" then your local Bell representative will be happy to "loan" one.

The Stainless Steel Rat

For those of you that use cross-connection terminals (one) for three or four-line-connections here is how to figure out the terminal pair number.

Each 25 pairs of wires are wrapped with a piece of plastic called a color binder. These binders have a dual color code just like wire pairs. Every 24 minor binders of 600 cable pairs are wrapped in a major binder. Below is a chart with cable pairs, minor and major binders.

Table with 4 columns: Pair/Minor, Binder Color, Pairs/White Major, Pairs-Black Major. Rows 1-25 showing color codes for cable terminals.

LETTERS

I (Oz Y.M.) received the letter excerpted below some time ago from J.J.Flash, a Kansas reader, but I was so stunned at getting any feedback/info that it took me until now to type it up for publication:

Tell the phreaks to have nothing to do (except get free batteries & maybe rip 'em off) with Radio Shack. Not only are they purveyor of a very limited selection of cheap shit, they have stopped selling certain components as they were used, by phone cheats to build little box boxes to steal phone services." So said the mgr. of I of these. Just to get even, I ran an E-Bow over some floppies by the Trash.

A way to get free software: go into a computer shop, put in your own case, or floppy, and load up (down, actually). Also Rad. Shack is deming. Its row-fone-type thing heavily. Call a friend in Kuala Lumpur, Tokyo, etc. Know anything about the TRS 80/1V? I have only heard rumors... supposed to be O.K. The TRASH 80 Series is probably the only thing Rad. Shack has done right - but even it has problems (the obnoxious durability of these is suspect; it doesn't look very tough).

You are absolutely right; a lot of computer phreak are assholes. Where I went to school the computer room was clogged with the biggest idiots in existence. Why do so many assholes go into computers? It would be nice if TAP would publish effective jam programs like the old BPCAF-O (10 BPC X=0 20 NEXT X 30 END...)

BPCAF-O system is getting a little old but still works on BPC2000-type timeshare prems. (Ties up terminals). Hints: Numbers & even codes can be used from terminals at high schools and even Jr. High's - these T/S systems have a surprising set of choice games, etc., in them, all in BASIC. HP BASIC will run (I think) on an Apple w/o much hassle. The new IBM Personal system sucks dick to the max - it makes apple look real good & is more bucks to boot.

I have tapes of both Kans./City stonies gigs and the Zappa show (A the 78 Chicago/Rome/Blondie gigs). How to tape concerts: (Event) I mounted a converted tape dictation machine connected to full track mono (surplus disc head) & double-headed (Zenex & 45v. Flash battery.) in a Tappex box (opened with a hot wire) & stuck it in my girlfriend's purse. Her friend's sister took the box, plugged in the mike and started the machine. Playback is on tascam portastudio, which is a 4-track cassette recorder w/board - y - speed, onto another way. Sound fidelity is pretty good. This is a surefire way to do it & these tapes might make it; know yourselves. A friend has some Elvis boot stakers; inv anyone that'll run off a few? Elvis any way to fuck up a station? The total KC radio stns. music to play anything but B.S. (I won't even call it music). Know Jerry Falwell's etc.?? This is one motherfucker who deserves deep heat fuck-n-cvt efforts.

--- Jumpin' Jack Flash

TAP ROOM 603 147 W. 42 ST. NEW YORK 10036

APRIL 1983 No. 84

Modifying Your Phone For 1633 Hz (Withif You Agree to The Magician) by Fred Steinbeck

In TAP issue number 63, The Magician told how to add the 1633 Hz (4th column) tone to your Touch-Tone phone. Well, times change, as do phones. Recently, phones in the Pacific Telephone area (and probably elsewhere, as well), have an integrated circuit which produces those familiar Touch-Tones. For some unexplained reason, Bell used chips which are capable of generating 1633 Hz mixed with another row, making our job that much easier.

First, take your genuine Bell Touch-Tone phone and unscrew the screws on the bottom. Now remove the cover. Pretty good so far, huh? Then unscrew the two screws which hold the Touch-Tone pad to the base of the telephone. Remove the Touch-Tone pad from the pieces of metal which anchor it to the telephone.

Turning the Touch-Tone module over (to the left, that is, rotating the module in a counter-clockwise direction), we see several wires running out of it, and a brown wire connected to its bottom by a screw. Well, unscrew that, removing the screw and wire entirely. But save 'em for later.

Next remove that clear plastic covering which is on the bottom (the top, as we are now looking at it, since we've turned it over) from the Touch-Tone module.

Obtain a small, SPST momentary, normally open, pushbutton switch. Along the bottom of the PC board on the Touch-Tone module, there should be 8 soldered connections. In order for them to be right (as viewed when the module is turned over, as it should be now), they are: (1) power, (2) row #1, (3) column #3, (4) column #2, (5) column #1, (6) row #4, (7) row #3, (8) row #1. To produce the lowest series tone (Priority, or 1633 Hz + 941 Hz), connect half of the switch to connection (6) from the left. This is probably the one you want, as it allows access to toll-free loop-arounds (see TAP #62).

Now, the crux of it all: the IC. About 1/2 inch above the connections on the bottom of the board, there are a number of connections going to the IC. Most of these connections have PC board traces going to them, except for a few. Go along the row from the right until you come to the first connection that doesn't have a trace going to it. This is the one you want to solder the other half of the switch to. Remember, you're soldering directly to an IC, so use a low-wattage soldering iron, and be quick about it.

Anyway, once the phone is re-assembled (be sure to hook that brown wire back up to the Touch-Tone module) and hooked up to the line, when you press your button, you should get 1633 Hz mixed with whatever row you decided upon. What will they think of next?

Hoffman leading

water plant protest

DOYLESTOWN, Pa. — Hundreds of protesters gathered in front of the Doylestown Water Treatment Plant today, and several dozen protesters were arrested in "hunger" strikes to protest the plant's expansion program.

Hoffman, who could return to prison if he is not granted parole, said he would not accept an offer of parole in 1983.

Hoffman said he hoped he would be able to work in a different area of the prison system, which would allow him to be paroled after the 1983 parole hearing. Hoffman said he would not accept an offer of parole in 1983.

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Hoffman quits Pa. protest

DOYLESTOWN, Pa. — Alvin Karpis, the former leader of the Karpis gang, has had a falling out over the environmental group protesting the Doylestown Water Treatment Plant expansion program.

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Token Exchange

Slugging the subway

An estimated 27 million people ride New York City's subway each day. Most of them using the token. But many tokens are being used for other purposes.

Hoffman said West Virginia University students yesterday that people still used tokens to buy beer and cigarettes.

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MORE FREE ELECTRICITY

The State Attorney General's Office is investigating power companies charging exorbitant rates for electricity. The office is looking for ways to reduce the cost of electricity.

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MA BELL IS A CHEAP MOTHER

San Leandro - A man who used to be a bank teller is now a bank robber. He was caught with a bank card covered with glue, police say.

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