

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 Metropolis 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 mileage's between Bell system Rate Steps.

Rate Step	Number of Miles
1	1-10
2	11-22
3	23-55
4	56-124
5	125-292
6	293-430
7	431-925
8	926-1910
9	1911-3000
10	3001-4250
11	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 Mileages 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 last 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. Precramer. "There are suspects," 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."



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No. 84

Modifying Your Phone For 1633 Hz
(with apologies 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 from left to 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?

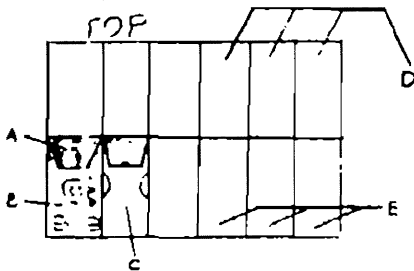
The Stainless Steel Rat

A fact I forgot to mention in my previous alarm articles is that one can also use polyurethane foam in a can (at any 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 is hung 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 sleepy business pig inside to think someone is breaking 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 wipe 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 "1" and "9" 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 from the wall, as they all have tamper switches.

On the subject of holdups most places (including super-markets, liquor stores, etc.) have what is known as a money clip. These little nasties 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. That's why when you make your withdrawal it is best to help yourself so you can check for these clips. See the diagram for more details.



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

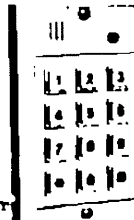
A note on high security permittic switches. Some have three wires running from them. One is a power line. Another is normally open and the other is normally closed. To bypass this the NO contact must be cut and the NC side must be jumped to the power control.

If you should find see cameras, look at the brand. If it is Surveillance Video Systems (SVS) you need not worry. These cameras are fake. They are realistic to the point of pilot lights, coax and scanning. However they are only empty boxes.

Another correction. Vibration sensors can be fooled. On glass one can dampen the vibrations by pressing blocks of rubber around the sensor.



IF YOU'D BEEN HERE YESTERDAY YOU COULD HAVE HAD THIS FIFTEEN CENT STAMP FOR EIGHTY CENTS INSTEAD OF THE TWENTY CENTS IT'LL COST YOU TODAY



Money Clip

- Select Hidden Device to Use Whenever Cash is Handled
- Removal of Last Bills Initiates Quiet, Positive Switch Action



ABBIE
HOFFMAN, who wrote "Steal This Book" and helped foment the radical Yippie movement more than a decade ago, says he can attain his goals by working through "the system."

Hoffman told West Virginia University students yesterday that people still want change but are unsure what to do. He said the task of today's activist is to teach people how to use "the system."



ABBIE HOFFMAN

But Hoffman, who spent seven years as a fugitive from a federal drug charge, advocated a different solution from the Vietnam war protests he led in the late 1960s and early 1970s.

"Cities lack grassroots political activism," Hoffman said in an informal gathering at the Underground Railroad, a bar here.

Token Exchange

Slugging the subways

As estimated 17 million people ride New York City's subways each day, most of them using 75 tokens. But so many foreign coins manufactured ships and whatnot are stuffed into the turnstiles that the financially troubled system loses up to \$1 million in revenues each year. Now there is a new drive on foot: a 17½ token issued in October by Connecticut Turnpike officials for use in the state's turnpike toll booths that is almost exactly the same size and shape as a subway token. Says one New York official, "Somebody did some sloppy work on that."

In fact, Connecticut's new tokens were manufactured by the same firm that produces New York's Bell City subway tokens and Connecticut transportation officials failed to verify in advance on the token plans. With each side soon claiming the other for the lost-up New York Mayor Ed Koch launched a new crackdown on fare cheating. Connecticut-style. Some operators of video-game parlors that employ special tokens have discovered another illegal use for the Connecticut tokens. Pac-Man players are getting a quarter's worth of action for 17½.



Tokens

Hoffman leading water plant protest

DOYLESTOWN, Pa. — Hundreds of protesters planned to descend on the Berks County Courthouse today, and activist Abbie Hoffman prepared to "subvert" to arrest to dramatic opposition against the Point Pleasant water diversion project.

Hoffman, who could return to prison if he breaks parole terms on a drug conviction, said his arrest will occur at "an appropriate place in Doylestown."

Hoffman said he hoped his arrest would focus nationwide publicity on the opposition to the \$47 million water project, which calls for 95 million gallons to be pumped daily from the Delaware River. About half the water would be used by area residents, while the other half would cool nuclear reactors being built at Limerick, Montgomery County. About 150 persons were detained at the site last week.

Hoffman quits Pa. protest

DOYLESTOWN, Pa. — Abbie Hoffman, the sometime Yippie radical leader, has had a falling out over money with an environmental group protesting a pumping station on the Delaware River and has quit to return to New York.

"There are Perches and Mercedes buses out on the road blocking bulldozers," Hoffman said yesterday. "There are not Volkswagen. This is Berks County after all."

Hoffman joined the protest several weeks ago as a 31-a-year consultant to help fight construction of the pumping plant, which is designed to draw as much as 95 million gallons of water daily from the river for use of a nuclear plant and in municipal water systems.

However, Hoffman said the group also agreed to pay his expenses and to purchase \$10,000 worth of tickets to the "River Rat Ball," a fund-raiser for environmental goals. To date the group has not paid him \$300 to \$400 for telephone expenses, 2000 in other expenses, and has failed to purchase \$4,000 worth of tickets for the ball, he said.

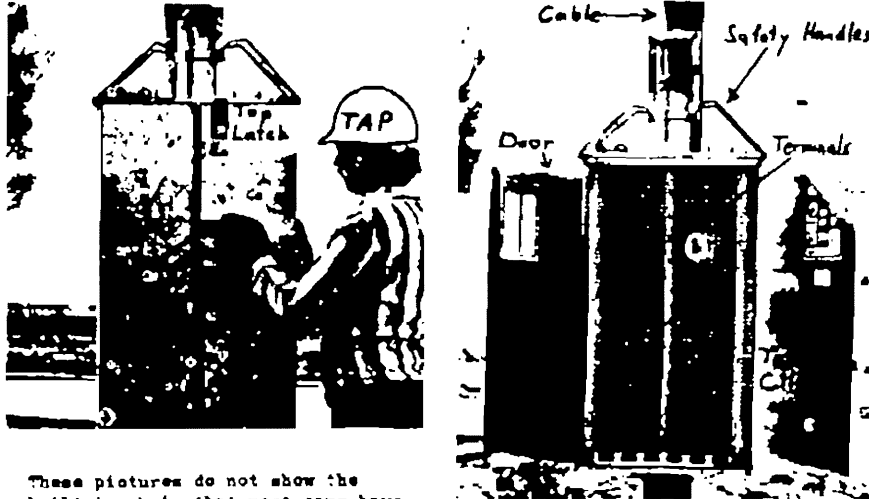
If you want to cut your phone bills, cut out this chart.

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Displayed Red Box, & 2600 Whistle Perfector plans.
Send CASH, check, or money order to:

TAP, Room 603, 147 West 42nd Street, New York, N.Y., 10036.

For those of you out there that have not yet tried TAPPING into a can here is some info that should get you started. To open the can first lift up the top latch. Now open the upper door latch. To open the lower latch you need a 7/16 terminal wrench. However an adjustable wrench will do. Undo the bolt and then open the latch. Now open the right hand door. In the center of the door there is a set of test clips. Unwrap them and cut them off, they are very handy. Attach the test clips to your test set and plug them in!

After you are done close the doors, the latches and keep away from that can for a few months. When the lineman discovers the missing test clips he may report it.



These pictures do not show the built in chair that most cans have.

For those of you that play in cans regularly it may be worth your while to get a Bell System tent. It is used by linemen when it is very cold or windy. It is a small tent made of heavy canvas and is suspended from the cable. Many times they are left set up over night, etc. Now 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 "loose" one.

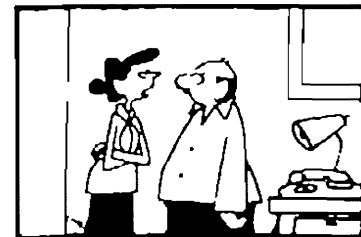
The Stainless Steel Rat

For those of you that use cross-connection terminals (cans) for free calls or line-tapping here is how to figure out the terminal pair number.

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

STANDARD COLOR CODE SEQUENCE for CABLE TERMINALS to 3000 PAIR

Pair/Minor Binder Color	Pairs-White Major	Pairs-Red Major	Pairs-Black Major	Pairs-Yellow Major	Pairs-Violet Major
1 Blue-White	1-25	601-625	1251-1275	1801-1825	2401-2425
2 Orange-White	26-50	626-650	1276-1300	1826-1850	2426-2450
3 Green-White	51-75	651-675	1301-1325	1851-1875	2451-2475
4 Brown-White	76-100	676-700	1326-1350	1876-1900	2476-2500
5 Slate-White	101-125	701-725	1351-1375	1901-1925	2501-2525
6 Blue-Red	126-150	726-750	1376-1400	1926-1950	2526-2550
7 Orange-Red	151-175	751-775	1401-1425	1951-1975	2551-2575
8 Green-Red	176-200	776-800	1426-1450	1976-2000	2576-2600
9 Brown-Red	201-225	801-825	1451-1475	2001-2025	2601-2625
10 Slate-Red	226-250	826-850	1476-1500	2026-2050	2626-2650
11 Blue-Black	251-275	851-875	1501-1525	2051-2075	2651-2675
12 Orange-Black	276-300	876-900	1526-1550	2076-2100	2676-2700
13 Green-Black	301-325	901-925	1551-1575	2101-2125	2701-2725
14 Brown-Black	326-350	926-950	1576-1600	2126-2150	2726-2750
15 Slate-Black	351-375	951-975	1601-1625	2151-2175	2751-2775
16 Blue-Yellow	376-400	976-1000	1626-1650	2176-2200	2776-2800
17 Orange-Yellow	401-425	1001-1025	1651-1675	2201-2225	2801-2825
18 Green-Yellow	426-450	1026-1050	1676-1700	2226-2250	2826-2850
19 Brown-Yellow	451-475	1051-1075	1701-1725	2251-2275	2851-2875
20 Slate-Yellow	476-500	1076-1100	1726-1750	2276-2300	2876-2900
21 Blue-Violet	501-525	1101-1125	1751-1775	2301-2325	2901-2925
22 Orange-Violet	526-550	1126-1150	1776-1800	2326-2350	2926-2950
23 Green-Violet	551-575	1151-1175	1801-1825	2351-2375	2951-2975
24 Brown-Violet	576-600	1176-1200	1826-1850	2376-2400	2976-3000
25 Slate-Violet					



"Yes, I love the phone but no, I wouldn't like a lot of 'jungle drums'."

\$70,000 bank machine theft

SAN LEANDRO — A man who used a map to hide his face stole up to \$70,000 from a Wells Fargo Bank automatic teller Sunday after jamming the machine with a bank card covered with glue. Police say

The State Attorney General's Office is investigating possible widespread cheating on electricity bills by bars and restaurants in Hudson and Middlesex counties which may be costing the Public Service Electric & Gas Co. as much as \$600,000 per month. The Star-Ledger has learned.

Sources close to the investigation said more than 30 electric meters have been tampered with by the AG's office for examination and billing records of the establishments from which they were taken are being studied for possible irregularities.

In addition the sources said one suspect in the case already has been questioned and authorities are trying to determine if he was working with accomplices in efforts to trace the extent of the alleged fraud.

According to the sources, on May 26, 30 businesses may be involved in the case, each of them tampering with their electric meters so that they showed less power usage each month. By doing so, the businesses would save at least \$50 per month on their bills.

The sources said the last part would be back one of the deals on the meters — used by the 1,000 business-hour deal — before the PSE&G meter reader would inspect it. The suspect and the owner would then split the difference between actual cost of the electricity used and the cost of that same on the meter.

A Public Service spokes-

man declined to discuss the investigation, saying he was acting on the orders of the Attorney General's Office. Deputy Attorney General Robert Winters, who is conducting the probe, could not be reached for comment.

A spokesman for the State Public Utilities Commission, which regulates the electric industry in New Jersey, said, however, that an engineer from the agency had been sent to observe the checking of the meters.

The sources said the meters were found to be in good working condition, suggesting the comparison of bills for the establishments involved.

"It's been a long-standing investigation," one source said. "If there are as many places cheating on their bills as we suspect, Public Service could be losing thousands each month, and we don't really know exactly how long it's been going on."

According to the sources, the probe began when Public Service learned of the alleged fraud and reported it to state authorities who later called in the PUC for technical assistance.

"The PUC has been cooperating to the extent to which it has been asked," the agency spokesman said.

Turning back electric meters is a fairly simple process and the devices used of which have five dials, can be fixed to show less usage by turning back one of the dials. The meters are usually sealed by the utilities to prevent such fraud.

by Oz Y. Mandias

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 purveyors of a very limited selection of cheap shit, they have stopped selling certain components as they were used, "by phone cheats to build little blue boxes to steal phone services." So said the mgr. of 1 of these. Just to get even, I ran an E-Bow over some floppies by the Trash 80/III.

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 demoing its rovsafone-type thing heavily. Call a friend in Kuala Lumpur, Tokyo, etc. Know anything about the TRS 80/IV? I have only heard rumours... 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 physical 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 computing? It would be nice if TAP would publish effective jam programs like the old BREAK-O (

10 BREAK X=0
20 NEXT X
30 END...)

BASIC program is getting a little old but still works on HP2000-type timeshare prems. (Ties up terminals). Hint: Numbers & signon codes can be had from teenapers at high schools and even Jr. highs - these T/S systems have a surprising amt. of choice names, 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 Kane/City stones Cigs and the Zappa show (& the '78 Chicago/Ramones/Blondie rig). How to tape concerts: (Easy!) I mounted a converted tape dictation machine converted to full track mono (surplus data head) & double speeded (Zeners & a 45v. flash battery) in a Tampax box (opened with a hot wire) & stuck it in my girlfriend's purse. Upon arriving, she tore open the box, plugged in the mike and started the machine. Playback is on a tascam portastudio, which is a 4-track cassette recorder w/board - 4-speed, onto another machine. Sound fidelity is pretty good. This is a surefire way to do it & these tapes might make it on vinyl themselves. A friend has some Elvis boot stamper; know anyone that'll run off a few? Know any ways to fuck up a station? The local KC radio stns. refuse to play anything but B.S. (I won't even call it music). Know Jerry Falwell's c.c.? This is one motherfucker who deserves our 6666 fuck-over efforts.

--- Jumpin' Jack Flash

'Tell America it is a cringing, backstabbing coward because it cannot, has never tried to, exercise its will without violence.' -- Jack Abbott

The Sund. 17 October /82 Rocky Mountain News out of Denver carried a feature story about 'Bob', ace ecoteur, & his exploits in sabotaging the equipment & plans of the enemies of a green Earth. Remember the Zelazny SF story about the Children of Earth guerrilla environmentalists, who assassinated corporate pigs & politicians who allowed pollution? Long live dynamite!

Interested in armour-piercing ammo? Write or call American Ballistics Co., Inc., Box 1410, Marietta, GA 30061 (or 404-434-8078). This kind of ammo may be improvised by inserting a small piece of carbide drill bit into a hole drilled in the bullet slug or a 12-gauge rifled slug (like the new one by Federal).

Worried about handwriting or typewritten letters being traced back to you. Either make a typewritten carbon copy or Xerox. Either of these methods will prevent analysis from tracing the typeface back to your typewriter.

Pot growers take note. The 23 Sept/82 New Scientist details the positive effects of a tab of aspirin on plant growth & well-being. Just put a tab in the soil a few inches from the stalk. A birth control pill apparently also has beneficial effects.

The 25 Sept/82 issue of 'The Economist' contains an article on software pirates & anti-pirate technology. The 25 Nov/82 Rolling Stone contains an article on the notorious '60s acid chemist Oswald Stanley.

The Church of the Tree of Life (405 Columbus Ave., San Francisco, CA 94133) is concerned with legal highs, herbal & chemical & the dispersal of info concerning them. Send them a huck or 2 donation for more information on this interesting organization. Associated with this group is Inner Center, Box 362, Hermosa Beach, CA 90254. Send 25c and an BASE for their 'Sacramental Herald' & info packet. They sell some of the Church's sacraments at pretty reasonable prices (eg. \$20/gram for volubine). Certain sacraments are restricted to members only.

Some where over the Shining Path, this is Oz signing off.



Pac-Man gobbled up

Quicker than you can say "blip, blip, blip," three gunmen entered a Staten Island deli and stole a Pac-Man video game, police said yesterday.

The bandits walked into the Old Amboy Deli in Great Kills about 11 p.m. Monday.

But when the employee started for the cash register the bandits shouted, "Don't move, we only want the machine."

Then they wheeled the 150-pound video game, valued at \$2,700, out the door to a waiting van and took off.

