### 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 milage's between Bell system Rate Steps.

Rate	Number			
Step	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 Milages between central offices by giving each CO a V & H (Veritcal 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 either this week, a Secret Service agent said yesterday. "The Virginia Department of Corrections has uncovered evidence that bogis forther is being produced in the print shop," said state Corrections Director R.K. Procunier. "There are suspects." said William Sutherland, special agent in charge of the Richmond office of the Secret Service. "They're people inside (the pentuentiary) and outside the prints system."



### **APRIL** 1983

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 (end 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 counterclockwise 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  $\ddagger1$ , (3) column  $\ddagger3$ , (4) column  $\ddagger2$ , (5) column  $\ddagger1$ , (6) row  $\ddagger4$ , (7) row  $\ddagger3$ , (8) row  $\ddagger1$ . 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  $\ddagger62$ ).

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?

#### NORE FUN WITH ALARMS

#### The Stainless Steal Rat



The Stainless Steak Bat A feet I forget to mention image provious alars articles is fat one can also use polyurathane foom in a can ( at any hardwark to hand: any people that travel carry a pocket alars with then. This is a small device that in hung around the door knob, and when someone touches the knob his body cap-solutions can be found by walking down the hall of a hotel and touching all the door is length of wire or other metal object to the knob. This will cause the alsersy build and call room service for help and is sorts of fun and ences will ensue. Some high-neourity instalations use keypads part like Touch-rooms distants. Nort use three or four digits. To figure out the knob, the will finger print duet and and all four digits of the walk, as they rull heave three or four digits. To figure out has been used just spily finger print duet and and all four digits is to have ence fun with the sympad from the has been used just spily finger print duet and and all four digits is to have ence fun with the sympad furtions is to have ence fun with the sympad furtions with to have ence furt with the sympad furtions is used that the same time. Many units is the same and the tour try is removed in the walk, as they rull heave tange and the door the solution to have ence of must the keypad furt you with the same digits. The solution is the same and she the same time. Many units is the same and may the same time. Many units is the same and ence the sill bringe with the same digits. The sill bringe when the last few bills are word. This will bringe when the last few bills are word. The we have ence the solution when the last few bills are word. The we have not not actively when the last few bills are word. The we have not not to the solution when the last few bills are word. The we have not not to the solution when the last few bills are word. The we have not not to the solution when the last few bills are word. The we have not noted for these and when the last few bills are wo

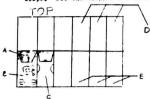


up Device to Use Wis Handled

UL

Last Bills Initiates

Money • Safest Holdup Cash is H



As you see one or two bills are slipped under the arm (A). If they are pulled out at points 7 the two bottom bills (E) will be also nulled out. Mowever if the bills are pulled out at point D the left two will risy in the clin. If you are pulling bills and see a sight like C ... A note on high "courity magnitic nwitches. 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 Of cids must be junped to the power contact. If you shoulift and res cameras, look at the brand. If it is Surveillance 'ideo Systems (D'S) you need not worry. These cameras are fakes. They are realistic to the point of pilot lights, soar and seaning. Mower they are only empty boxes. Another correction. Vibration sensors can be fooled. On glass one can dappen the vibrations by pressing blocks of rubber around the remore.

one can dam



IF YOU'D BEEN HERE YESTERDAY YOU COLD HAVE HAD THIS FIFTEEN CENT STAMP FOR EIGHTE COM'S NOTIONY .

ABBIE ADDE SOFFMAN, who wrote "Steal This Book" and helped fouls: the radical Yippie movement more than a decade ago, say he can attain his goals by working through "the system

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



bet Hoffman. ABME HOFFMAN Clites lack Brain an informat gathering at the Underground Raincad, a bar bere.

"What you're teaching is how the pro-cess of power works. That's what you try to teach people. It's always stunning to find out how little is understood."

## Token Exchange

Slugging the subways

Slugging the subways An very orch (1) is unbways each day, many foreign come, manufactured slog and whatog are stuffed into the turnstite start the financially tro-plant into the subways of the

## **Hoffman** leading

water plant protest DOVLESTOWN, Pa - Hun-dreds of protesters planned to taseed on the Bucks County Court-Mouse today, and activat Abbie Holf-man prepared to "submit" to arrest the dramatice opposition gagainst the Point Pleasant water diversion projmit' ... on against .... eraion proj-

Paint Pleasant water diversion pro-cet. Hidfman, who could return to prison it he breaks parole terms on a drug conviction, said has arrest will could at 'an appropriate pixee in Doylaxown." Heffman said he hoped his arrest would focus autoemote publicity on the opposition to the star said the opposition to the star said his plates to be purp-d daily from the Delaware Niver. About hall the water would be used by area resi-reich. Montgenery Courty, About 180 persons were detained at the size law week.

# Hoffman quits

Pa. protest

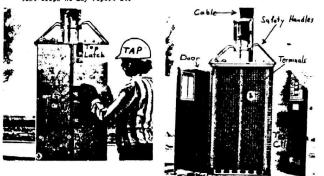
<text><text><text><text><text>

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

Back Issues are 5.75 each. Issue 450 is \$1.50. Subscriptions - 10 issues per year.
US Bulk Envelope Rate 88.
US First Class in plain sealed envelope \$10.
Canada 4 Mexico First Class \$10.
Foreign Surface 59. - Foreign Air Mail 512.
IMPORTANTI Please include your mailing label or a Xerox copy whenever you write to TAP about your subscription.
Electronic Courses - \$.75 each. A - DC Bagics, B - AC Basics, C - Phone Basics, D - Amplifiers.
TAP "Ma Bell" Patch - \$1.50.
TAP TOth Anniversary Pen - \$.50.
TAP TAE Sheet 11 - \$.50. Free BELL phone calls.
TAP Fact Sheet 11 - \$.50. Pree BELL phone calls.
TAP Fact Sheet 14 - \$.50. Pree BELL phone calls.
TAP Fact Sheet 14 - \$.50. Dual Toñe Oscillator, Displayed Red Box, & 2600 Whistle Perfector plans.
Send CASH, check, or money order to :
TAP, Room 603. 147 West 420d Street. New York. TAP, Room 603, 147 West 42nd Street, New York, N.Y. 10036.

## A WORD ABOUT CANS

For those of you out there that have not yet tried TAPping into a can have 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 them open the latch. How open the right hand door. In the senter of the door there is a set of test olips. Unwrep them and out them off, they are very handy. Attach the test elips to your test set and head keep away from that can for a few months. When the lineman discovers the mirsing test elips he may report it.



These pictures do not show the built in ohair that most came have. For those of you that play in came regularly it may be worth your while to get a Bell System tent. It is used by lineman when it is remponded from the the seble. Hany times they are left set up over night, ets. How it is definitly in your bast interest to pick one up if you see one that has been socidentely left by the rondside. If you can't find a "lot tent" then your local Bell representative will be happy to "loone"one. deide. .

# SELL IS A The Stainless Steal Rat

For those of you that use cross-connection terminals (cane)for free calls or line-tapping here is how to figure out the terminal peir number. Each 25 pairs of wires are wraped with a piece of nisetic called a minor binder. These binders have a dual color code rust like wire pairs. Twery 24 minor binders or 600 osble prirs are wrapped in a major binder. Show is a chart with cable pairs, minor and major binders.

STANDARD COLOR CODE SEQUENCE For CABLE TERMINALS to 3000 PAIR

### MORE FREE ELECTRICITY

. . .

"The PUC has been cooper-

armed to discuss the investigation, saving he was acting on the orders of the Automety General Robert Deputy Attorney General Robert et Winters, who is conducting the prote, could not be reserved for comment A serve The State Attorney Gener-als Office is investigating possible widespread cheating on electricity bills by bars and restaugants in Hudkon and Middl act counces which may be compared that the state of the Board of the state of the state Board of the state of the state Sources close to the mixed by the AG's office for exami-nation and billing records of the establishments from which they were tablishen are being studied for possible arregular-ties. ed for comment A spokesman for the State Public Utilities Commission, which regulates the electric industry in New Jersey, con-firmed, however, that an engi-neer from the agency had been sent to observe the checking of the meters.

The sources said the meters were found to be in good work-ing condition, necessitating the comparison of bills for the establishments involved. "It's been a long-standing

ittes In addition the sources sad, one suspect in the case already has been questioned and automities are trying to determine if he was working with accomplices in efforts to trace the extent of the alleged establishments involved "It's been a long-standing investigation," one source said "It forme are an many as we suspect, Public Service routid be long thousands each month, and we don't really how eaceity how long it's been going on According to the sources, the probe loggan when Public finant and reported it to state authorities who later called in the PULC for technical assati ance "The PUC has been cooper-. . .

According to the sources, as ways as 20 builtnesses may be motived in the case, each of them sampering with they showed ints power usage establishments, could save all they showed inters as the establishments, could save all the sources sait the sub-plex of the sources save and the sources save the sub-bid on the meters - usably below the Stated meter read-er would measure har did would interest in the sour-point of the electricity to all of electricity and shows us the meter. "The PUC has been cooper-sing to the extent to which it has been asked." The agency spokerum hard. Turring that we electric meters as to tarty employ pro-which have fore data: can be fixed to show less usage by journot takk one of the plans. The meters are usually sealed by the utilities to prevent such fraud.

1.

CHEAP

q. OTHE



## \$70,000 bank machine theft

SAN LEANDRO — A man who used a mop to hide his face stole up to \$70,000 from a Wells Fargo Bank automatic teller Studiay after jamming the ma-chine with a bank card covered with glue, police say.

p	air/Minor Binder Color	Pairs-White Major	Pairs-Red Major	Pairs-Black Major	Pairs-Vellow Maj	on Pairs-Violet Major
1	3lue-white	1-25	601-625	1201-1225	1801-1825	2401-2425
2	Orange-White	26-50	626-650	1226-1250	1926-1850	2426-2450
3	Green-White	51-75	651-675	1251-1275	1851-1875	2451-2475
4	Brown-White	76-100	676-700	1276-1300	1876-1900	2476-2500
5	Slate-White	101-125	701-725	1301-1325	1901-1925	2501-2525
6	Blue-Red	126-150	726-750	1326-1350	1926-1953	2525-2550
7	Orange-Red	151-175	751-775	1351=1375	1951-1975	2551-2575
8	Green-Red	176-200	776-800	1376-1400	1976-2000	2576-2600
9	Brown-Red	201-225	801-825	1401-1425	2001-2025	2601-2625
10	Slate-Red	226-250	826-850	1426-1450	2026-2050	2626-2650
11	Blue-Black	251-275	851-875	1451-1475	2051-2075	2651-2675
12	Orange-Black	276-300	876-900	1476-1500	2076-2100	2676-2700
13	Green-Black	301-325	901-925	1501-1525	2101-2125	2701-2725
14	Brown-Black	326-350	926-950	1526-1550	2126-2150	2726-2750
15	Slate-Black	351-375	951-975	1551-1575	2151-2175	2751-2775
16	Slue-Yellow	376-400	976-1000	1576-1600	2176-2200	2776-2800
17	Orange-Yellow	401-425	1001-1025	1601-1625	2201-2225	2801-2825
18	Green Yellow	426-450	1026-1050	1626-1650	2226-2250	2826-2850
19	Brown-Yellow	451-475	1051-1075	1651-1675	2251-2275	2851-2875
20	Slate-Yellow	476-500	1076-1100	1676-1700	2276-2300	2876-2900
21	Blue-Violet	501-525	1101-1125	1701-1725	2301-2325	2901-2925
22	Orange-Violet	526-550	1126-1150	1726-1750	2326-2350	2926-2950
23	Green-Violet	551-575	1151-1175	1751-1775	2351-2375	2951-2975
24	Brown-Violet	576-600	1176-1200	1776-1800	2376-2400	2976-3000
25	Slate-Violet					

4 5

### LETTERS

I (Oz Y.M.) received the letter excepted 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 phreakx to have nothing to do (except get free batteries 6 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 set even, I ran an E-Bow over some floppies by the Trash 80/111.

A way to get free Software: go into a computer shop, put in your own cass. or flpy. and load up (down, actually). Also Rad. Shack is demoing, its rovafone-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 existance. Why do so many assholes go into computing? It would be nice if TAP would publish effective jam programs like the old BPEAK-O(

10 BPK X=0

20 MEXT 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. high's - these T/S systems have a surprising amt. of choice games, etc., in them, all in BASIC, HP BASIC will run (I think) on an Apple w/o much hassle. The new IB't '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 stones Gigs and the Zappa show (& the '78 Chicago/Ramones/Blondie gig). 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 battrv.) 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. Plavback 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 vinvl themselves. A friend has some Elvis boot stampers; know anyone that'll run off a few?Know any wavs 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 best Tuck-over efforts.

--- Jumpin' Jack Flash

by Oz Y. Mandias

'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-guage rifled sing (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 Owslev Stanley.

The Church of the Tree of Life (405 Columbus Ave., San Trancisco, CA 94133) is concerned with leval highs, herbal & chemical & the dispersal of info concerning them Send them a buck or 2 donation for more information on this interesting organization. Associated with this group is Inner Center, Box 362, Hermona Beach, CA 90254. Send 25c and an SASE for their 'Sacramental Herald' & info packet. They sell some of the Church's sacraments at pretty reasonable prices (eg. \$20/gram for vohimbine). 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," three gunmen entered a Staten Island deli and stole a Pac-Man video game, police said yesterday. The bandits walked into the Old Amboy Delf

in Great Kills about 11 p.m. Monday. But when the employe started for the cash

register the bandits shouted, "Don't move, we register the machine." Then they wheeled the 150-pound video game, valued at \$2,700, out the door to a waiting

van and took off.

