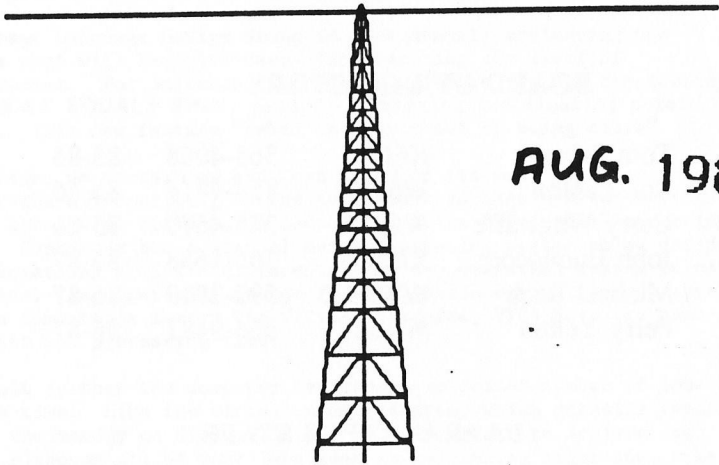


**P A A R A**

***GRAPHS***



**AUG. 1986**

**THE OFFICIAL NEWSLETTER  
OF THE PALO ALTO AMATEUR  
RADIO ASSOCIATION  
AND**

**THE MENLO PARK C.D. AMATEUR RADIO CLUB**

<p>PAARAGraphs is the official newsletter of the Palo Alto Amateur Radio Association &amp; the Menlo Park Civil Defense Radio Club</p>
--

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**Club Net 147.45 MHz, Monday at 8:30 p.m. local time**

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Membership in PAARA is 6 dollars per calendar year (payable in January) which includes a subscription to PAARAGraphs. Make payment to PAARA, P.O. Box 911, Menlo Park, CA 94026.

**Wa6BRM (Paul)**

**will be speaking on  
Touch Tone Decoding Circuits**

**Surprises III**

**Demo's**

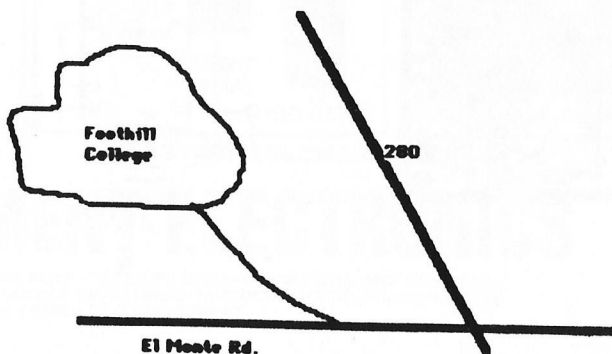
**Sample Circuits II**

**Flea**

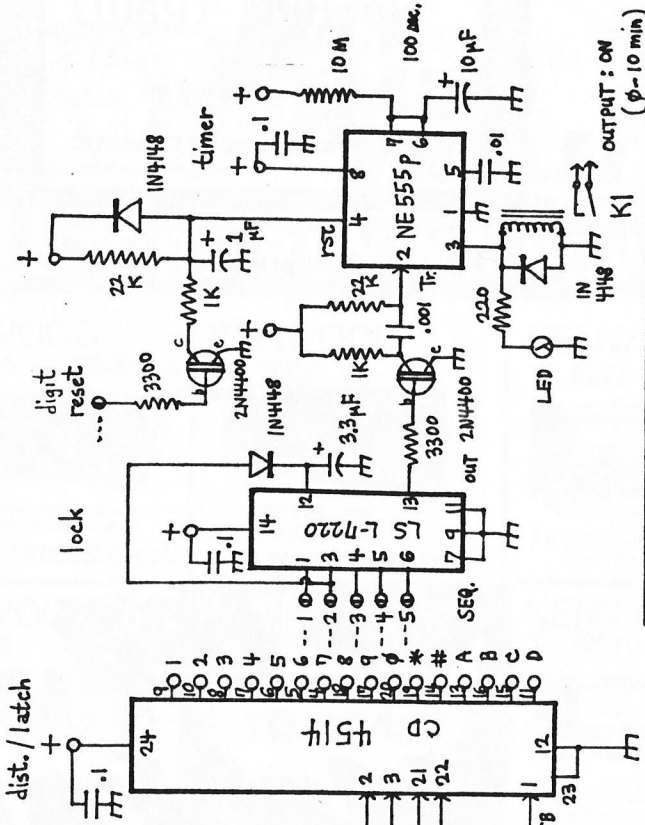
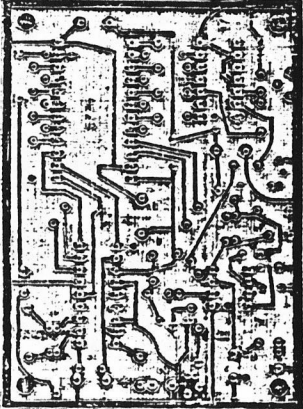
**Market**

**August 9, 1986**

**Palo Alto Amateur Radio Association**



5 digit sequential Touch Tone decoder; selective call / autopatch controller  
(1 digit reset)



- parts list :
- 1 - SSI 202
  - 1 - CD 4514
  - 1 - LS 7220
  - 1 - NE 555
  - 5 - .1
  - 1 - .01
  - 1 - .001
  - 1 - .1M
  - 1 - 3.3M
  - 1 - 10M
  - 3 - IN4148
  - 2 - 2N4400
  - 1 - 220
  - 2 - 1000
  - 2 - 3300
  - 2 - 22K
  - 1 - 1M
  - 1 - 10 M
  - XTAL 3.58 MHz
  - Red LED
  - 1 - PCB
  - Solder
  - wire
  - case
  - hardware
- OUTPUT : ON (φ-10 min)

power : +5vdc regulated  $\rightarrow$  5v.  
 0.1

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Info. 147.510 MHz

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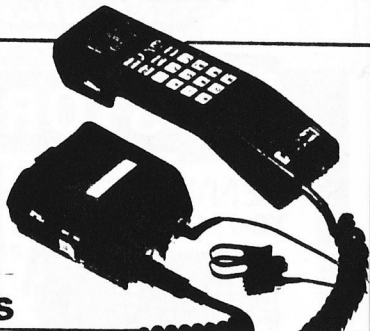
## 1986 CALLBOOKS



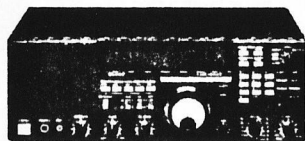
## Cellular Telephones

Quement Offers  
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**AUDIOVOX**  
**GTE Mobilnet**

Plus A Complete Group Of  
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## YAESU



### FRG 8800

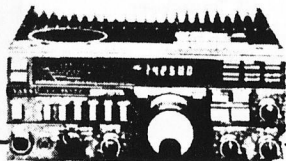
General Coverage Receiver  
All band, all mode  
AM/SSB/CW/FM, 150kHz-30MHz



### FRG 9600

Scanning Receiver for 60-905 MHz  
FM/AM/SSB, 100 memories

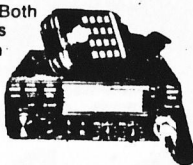
### FT 757GX



## ICOM LATEST EDITION

### IC-3200A DUAL BANDER

Covers Both  
2 Meters  
& 70 cm



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### HAND-HELDS

### VHF/UHF



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IC-04AT



IC-2AT  
IC-4AT



IC-3AT

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**IC-271H**  
2 Meters  
100 Watts  
All mode

### IC-471H

430-450MHz  
74 Watts  
All mode



## ICOM IC-R71A



Superior Grade General  
Coverage Receiver

## ICOM

### IC-R7000



25 MHz-1300 MHz

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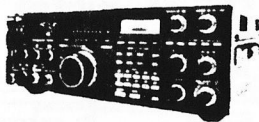
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TS-711A TS-811A



Ideal VHF/UHF base stations for  
2M/70CM transceiver operation

**GREAT PRICES. CALL**

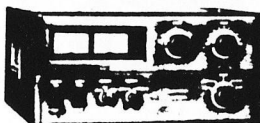
**KENWOOD**  
TS-940S



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TL 922A



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**KENWOOD**  
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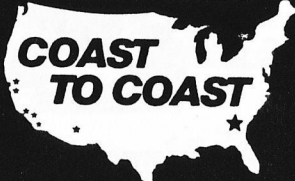
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## The Babbage Language (CONT.)

- **DO WAH** - Used to write timing loops for computer-generated music (Rag Timing).

Every self-respecting structured language has a case statement to implement multiway branching. ALGOL offers an indexed case statement and Pascal has a labeled case statement. Not much of a choice. Babbage offers a variety of case statements:

- The **JUST-IN-CASE** Statement - For handling after thoughts and fudge factors. Allows you to multiply by zero to correct for accidentally dividing by zero.
- The **BRIEF CASE** Statement - To encourage portable software.
- The **OPEN-AND-SHUT CASE** Statement - No proof of correctness is necessary with this one.
- The **IN-ANY-CASE** Statement - This one always works.
- The **HOPELESS CASE** Statement - This one never works.
- The **BASKET CASE** Statement - A really hopeless case.

The Babbage Language Design Group is continuously evaluating new features that will keep its users from reaching any level of effectiveness. For instance, Babbage's designers are now considering the **ALMOST EQUALS SIGN**, used for comparing two floating point numbers. This new feature "takes the worry out of being close".

No language, no matter how bad, can stand on its own. We need a really state-of-the-art operating system to support Babbage. After trying several commercial systems, we decided to write a "virtual" operating system. Everybody has a virtual memory operating system so we decided to try something a little different. Our new operating system is called the Virtual Time Operating System (VTOS). While virtual memory systems make the computer's memory the virtual resource, VTOS does the same thing with cpu processing time.

The result is that the computer can run an unlimited number of jobs at the same time. Like the virtual memory system, which actually keeps part of the memory on disk, VTOS has to play tricks to achieve its goals. Although all of your jobs seem to be running right now, some of them are actually running next week.

As you can see, Babbage is still in its infancy. The Babbage Language Design Group is now seeking suggestions for this powerful new language and as the sole member of this group (all applications for membership will be accepted), I call on the data processing community for help in making this dream a reality.

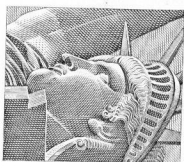
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