

### Denial

The Commodore Vic 20 Forum

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## Worldlam has a speech synthesizer for the Vic on Ebay





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#### **Author**

dave01253 Vic 20 Dabbler

Joined: 08 Mar 2007 Posts: 92

### Location: England

#### ruud Vic 20 Devotee

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Joined: 04 Aug 2004 Posts: 236 Location: Heerlen, the Netherlands

#### Message

Dested: Mon Oct 01, 2007 10:40 am Post subject: Worldlam has a speech synthesizer for the Vic on Ebay

(Q) quote

http://cgi.ebay.co.uk/Commodore-VIC20-Voice-Synthesizer-by-

Protecto\_W0QQitemZ130158987647QQihZ003QQcategoryZ74945QQrdZ1QQssPageNameZWD2VQQcmdZViewItem



🗅 Posted: Tue Oct 02, 2007 2:32 am Post subject: Re: Worldlam has a speech synthesizer for the Vic on Ebay



#### dave01253 wrote:

http://cgi.ebay.co.uk/....

Being an American, why is he selling it via the British Ebay and not Ebay.com ???

#### Code:



B profile S pm W www

Groetjes, Ruud

URL: Ruud.C64.org

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#### **Victragic**



Joined: 14 Nov 2006 Posts: 430 Location: Adelaide, Australia

#### **Back to top**

#### pitcalco just pitcalco



Joined: 28 Dec 2005

Posts: 980 Location: Kristinehamn, Sweden



a profile & pm

Tank defeats UFO by TKO

D Posted: Wed Oct 03, 2007 1:10 pm Post subject:

Posted: Tue Oct 02, 2007 2:53 am Post subject:

happened to access it via ebay.co.uk

auote 🔍

auote 🔍

That's right.

In fact as an eBay you can go to any eBay site in the world with the same user name and get in. Pretty nifty! 🧿

He's not, but he's listed it for worldwide shipping so it shows up under all versions of Ebay... dave01253 just



There are only three kinds of people in the world: those who can count and those who can't.

#### RADIOTJÄNSTIKIRUNAUNDANBEDES

Paul Lambert

Kristinehamn, Wermelandia Kingdom of Sweden

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wiskow Vic 20 Devotee

Joined: 02 Nov 2006 Posts: 261

Posts: 261 Location: Moreno Valley, CA

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MacbthPSW Vic 20 Afficionado

Joined: 06 Apr 2005

Posts: 476 Location: Thunder Bay, Canada

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wiskow Vic 20 Devotee



Joined: 02 Nov 2006 Posts: 261 Location: Moreno Valley, CA

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**Jeff-20** Denial Founder



Joined: 31 Dec 1969 Posts: 4197 Location: Chicago

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**orion70** Vic 20 Guru



Joined: 02 Feb 2006 Posts: 1569 Location: Italy Di Posted: Wed Oct 03, 2007 3:24 pm Post subject:

Here's the link on the US eBay site:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=130158987647

Only 15 minutes left!!!

-Andrew

Cottonwood BBS & Borderline BBS http://cottonwood.servebbs.com

🚨 profile) 🕵 pm) 🍑 email) 😘 www 🔉 AIM 📜 YIM) 🗘 msnm) 🛞 ICQ

D Posted: Wed Oct 03, 2007 3:41 pm Post subject:

( quote

(Q) quote

(Q) quote

\$28, not too high, eh? I'd probably buy it for that, if shipping wasn't \$22.

🚨 profile) 🚨 🚨 pm

D Posted: Wed Oct 03, 2007 4:03 pm Post subject:

u. Wed Oct 03, 2007 4.03 pm Post subject

MacbthPSW wrote:

\$28, not too high, eh? I'd probably buy it for that, if shipping wasn't \$22.

He was overcharging for shipping to Canada. U.S. shipping was only \$5.95. Shipping to Canada should only have been around \$10.  $\center{U}$ 

I just have to wonder how much he bought the thing for...

-Andrew

Cottonwood BBS & Borderline BBS http://cottonwood.servebbs.com

( profile) ( pm) ( email) ( www) ( AIM) ( YIM) ( msnm) ( ICQ)

D Posted: Wed Oct 03, 2007 5:09 pm Post subject:

(2) quote

I just couldn't bring myself to bid against orion and kilrplr. I have to get over that.  $\stackrel{\text{left}}{\Leftrightarrow}$  I just didn't want the price to go too high if they seemed really determined to get it.

So, does this work with Scott Adams games the same way votrax does? I am still waiting for am mp3 sample of votrax reading a Scott Adams adventure.

High Scores, Links, and Jeff's Basic Games page.

B profile S pm www

☐ Posted: Thu Oct 04, 2007 1:14 am Post subject:

(Q) quote

Jeff-20 wrote:

So, does this work with Scott Adams games the same way votrax does? I am still waiting for am mp3 sample of votrax reading a Scott Adams adventure.

I'll tell you as soon as the cart arrives. If it works with SA adventures, I will try to record the sound with a PC microphone.

You know, I WAS determined to buy it (thanks for your kindness), but not for an exorbitant cost. My maximum bid was \$ 30.00 (which is not too bad with strong euro - about 22 euros). I was just lucky.  $\Theta$ 

A .

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#### ral-clan

plays wooden flutes



Joined: 26 Jan 2006 Posts: 2952 Location: Ontario, Canada

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#### **PaulQ**



Joined: 14 Jan 2007 Posts: 1943 Location: Oshawa, Ontario

#### **Back to top**

# **gklinger** Vic 20 Elite



Joined: 02 Oct 2006 Posts: 2051 Location: Toronto, CANADA

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### carlsson



Joined: 09 Mar 2004 Posts: 5522 Location: Västerås, Sweden

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#### orion70 Vic 20 Guru



Joined: 02 Feb 2006 Posts: 1569 Location: Italy

### 🚨 profile) 🚨 🧸 pm

D Posted: Thu Oct 04, 2007 3:57 am Post subject:

I bid on it too early on, but wasn't really serious about fighting for it.



D Posted: Thu Oct 04, 2007 6:40 am Post subject:



(Q) quote

I had complained about his shipping charges before. IIRC, he wanted something like \$100 to ship a Commodore 128D from the U.S. to Canada. I think that Golan pissed him off, and he knows that Golan lives in Canada... 🤤



D Posted: Thu Oct 04, 2007 7:20 am Post subject:





In the end it will be as if nothing ever happened.

### a profile & pm

D Posted: Fri Oct 05, 2007 3:11 am Post subject:



I wonder if Golan lives on a hill, and calls his property Golan Heights? 😉

#### Anders Carlsson





D Posted: Wed Oct 17, 2007 11:10 am Post subject:

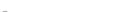


The Protecto cartridge arrived today. I tested it for just 20 minutes, and then I realized that... I just don't have any idea about how it works.

#### Facts:

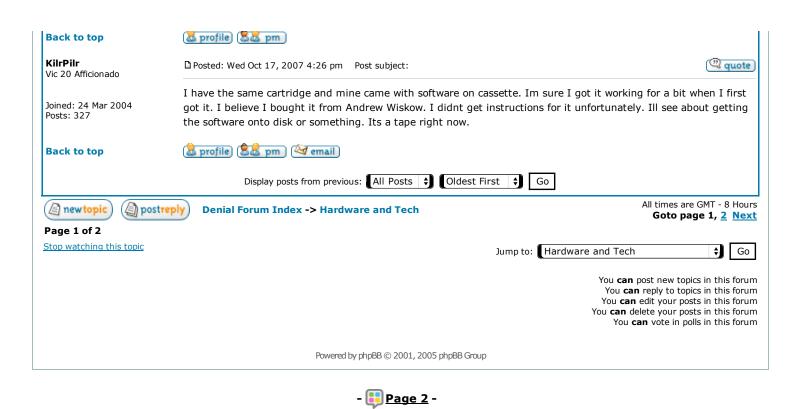
- The cart seems to be in good condition. It has an handwritten note on the label: poke 38912,3.
- I connected it to the audio input of my TV set.
- When I turn the VIC on, it buzzes loudly (sometimes with a different tone each time I turn it off and on).
- When I poke 38912,3 or >3 it stops buzzing.
- When I poke 38912,1 or ,2 it buzzes with different frequences.
- If I use the cart together with a Scott Adams Adventure (in a multi-cart slot), it buzzes the same way, but it doesn't work with the adventure text (typing "v" to activate the "voice" gives no result).
- It doesn't seem to add new speech-specific commands, such as "say" or "talk" or "speech" or "word" and so on.

Any suggestion before I write directly to wordlam (who I'm not sure will be helpful)?



I'd like to hear it working some day. Thank you guys. 📛







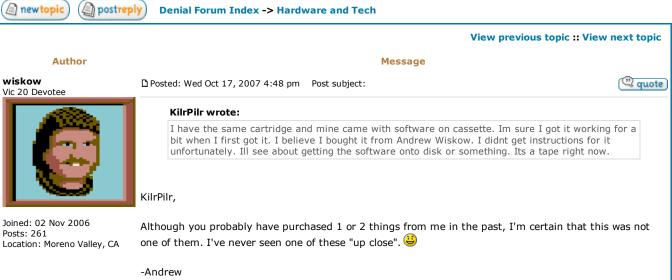
#### Denial

The Commodore Vic 20 Forum

# Worldlam has a speech synthesizer for the Vic on Ebay







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KilrPilr

☐ Posted: Wed Oct 17, 2007 5:17 pm Post subject:



Hmm I would have swore it was you that I bought it from. Ah well sorry about that.

🗟 profile) 🕵 pm 🏻 pm amail) 😘 www 🔉 AIM 🗡 YIM 🛣 msnm 🕷 ICQ

Joined: 24 Mar 2004

Vic 20 Afficionado

Posts: 327

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orion70



Joined: 02 Feb 2006 Posts: 1569 Location: Italy

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carlsson Class of '6502



Joined: 09 Mar 2004 Posts: 5522 Location: Västerås, Sweden

#### **Back to top**

vic user VicGyver



Joined: 25 Mar 2004 Posts: 1403 Location: Ottawa, Canada

#### **Back to top**

Jeff-20 Denial Founder



Joined: 31 Dec 1969 Posts: 4197 Location: Chicago

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KilrPilr Vic 20 Afficionado

Joined: 24 Mar 2004

Posts: 327

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Vic 20 Guru

## 🚨 profile) (🚨 pm ) (🍑 email )

D Posted: Wed Oct 17, 2007 11:04 pm Post subject:



#### KilrPilr wrote:

I have the same cartridge and mine came with software on cassette. Im sure I got it working for a bit when I first got it. I believe I bought it from Andrew Wiskow. I didnt get instructions for it unfortunately. Ill see about getting the software onto disk or something. Its a tape right now.

I suspected it was something like having the cart plus some software for it. If you manage to put it online, you will have my eternal gratitude.

Too bad it won't work with SA's adventures. On the other hand, their manual stated clearly that only the Votrax Sound Module (via RS232) would work with the "v" command.

### 🚨 profile) 🚨 🧸 pm

D Posted: Thu Oct 18, 2007 12:17 am Post subject:



A bit related, I picked up a Covox Voice Master the other week, but I yet haven't had an opportunity to test it. I suppose I need some dedicated driver software, but there at least seems to exist some C64 software to try.

Anders Carlsson



Posted: Thu Oct 18, 2007 1:15 am Post subject:



i think i have all the software and manuals for that.

i can always copy stuff for you



Deposited: Thu Oct 18, 2007 8:31 am Post subject:



Just in case you wanted to know what it sounds like: http://www.youtube.com/watch?v=V6J7bx8Z9aA

High Scores, Links, and Jeff's Basic Games page.



Di Posted: Sun Oct 21, 2007 11:01 am Post subject:



I cant seem to find the cassette anywhere. I cant even find the cart. Maybe it was just a dream 🥮 Na they are here somewhere. When i finally locate them, ill try to make a dump of the tape. An mp3 should work if i cant figure out any other way to do it.



Deposited: Sun Oct 21, 2007 10:41 pm Post subject:





Joined: 02 Feb 2006 Posts: 1569 Location: Italy

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**Key-Quest** Vic 20 Drifter

Joined: 22 May 2007

Posts: 34

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Vic 20 Amateur

Joined: 26 Mar 2005 Posts: 47

California, USA

Location: San Francisco,

rmelick

Location: Alberta, Canada

Thanks KilrPilr, if you can find the software I (or others) can try and convert the mp3 (better if wav?) into a usable tap/t64/prg file. Please, keep me updated.



D Posted: Sun Nov 04, 2007 2:55 pm Post subject:



#### orion70 wrote:

The Protecto cartridge arrived today. I tested it for just 20 minutes, and then I realized that... I just don't have any idea about how it works. 😕

- The cart seems to be in good condition. It has an handwritten note on the label: poke 38912,3.
- I connected it to the audio input of my TV set.
- When I turn the VIC on, it buzzes loudly (sometimes with a different tone each time I turn it off
- When I poke 38912,3 or >3 it stops buzzing.
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- If I use the cart together with a Scott Adams Adventure (in a multi-cart slot), it buzzes the same way, but it doesn't work with the adventure text (typing "v" to activate the "voice" gives no
- It doesn't seem to add new speech-specific commands, such as "say" or "talk" or "speech" or "word" and so on.

Any suggestion before I write directly to wordlam (who I'm not sure will be helpful)? 🕐



I'd like to hear it working some day. Thank you guys. 👑



You just got the cartridge itself in that auction, right? I believe it has to be connected to a special RF modulator (looks like a normal Vic-20 one except has an extra wire (with an RCA plug on the end) that connects to the port that is in that cartridge.

Anybody have a speech synthesizer for the Vic that actually works? I'm still working on mine...but hopefully very soon I will.





☐ Posted: Sun Dec 05, 2010 8:10 pm Post subject: Research on Protecto's Voice Synthesizer for





Was the manual ever found for Protecto's Voice Synthesizer and converted to electronic format?

So the Protecto Enterprizes VIC-20 Voice Synthesizer is a 1983 Personal Peripheral Products (PPP) Speakeasy?

Does the software on http://zimmers.net/anonftp/pub/cbm/vic20/utilities/unexpanded/ work with this unit? (Phoneme Editor.t.prg / Phoneme Speak.t.prg)?

The Protecto / Speakeasy hardware at \$9800, right?

### Phoneme Editor.t.prg

#### Code:

```
0 SYS6588:CLR:PRINT"{CLR}{DOWN}{DOWN}{DOWN}{DOWN}{DOWN}{RIGHT}{RIGHT}{RIGHT}
{RVS ON}COPYRIGHT 1983":PRINT"{DOWN}{DOWN}{DOWN}{RIGHT}PERSONAL PERIPHERAL
1 PRINT" {DOWN} {RIGHT} {RIGHT} {RIGHT} {RIGHT} {RIGHT} {RIGHT} PRODUCTS":PRINT"
{DOWN}{DOWN}{RIGHT}PHONEME EDITOR/T V1.0":FORI=0T09999:NEXTI
2 S=38912:T=38642:SYS6622
3 POKE 36869,255
4 PRINT"{CLR}
5 SYS6633
6 R=0:C=0
7 Z1=7680:POKET+B,7:POKE38898,1:POKET-1,1
8 Z = 7680 + 22 * R + C
9 POKEZ1+30720,6
10 \ Z1 = Z
11 GETA$:POKEZ+30720,1:FORI=0TO9:NEXTI:IFA$<>""THEN13
12 GOSUB96:POKEZ+30720,6:GOSUB96:GOTO11
13 IFA$="{RIGHT}"ANDC=7THENC=0:GOTO8
14 IFA$="{RIGHT}"THENC=C+1:GOTO8
```

```
15 IFA$="{LEFT}"ANDC=0THENC=7:GOTO8
16 IFA$="{LEFT}"THENC=C-1:GOTO8
17 IFA$="{DOWN}"ANDR=7THENR=0:GOTO8
18 IFA$="{DOWN}"THENR=R+1:GOTO8
19 IFA$="{UP}"ANDR=0THENR=7:GOTO8
20 IFA$="{UP}"THEN R=R-1:GOTO8
21 POKEZ+30720,6
22 IFA$="Q"THENPRINT"{CLR}{RVS ON}QUIT{RVS OFF}":POKE36869,240:CLOSE3:CLOSE2:END
23 IFA$="R"THEN31
24 IFA$="W"THEN43
25 IFA$="C"THEN86
26 IFA$="{F1}"THEN50
27 IFA$="{F3}"THEN52
28 IFA$="{F5}"THEN54
29 IFA$="{F7}"THEN58
30 GOTO8
31 PRINT"{CLR}";:POKE36869,240:PRINT"{RVS ON}READ DATA FILE{RVS OFF}{DOWN}
32 IFE<>OTHENPRINT"FILE END, READ NEW FILE":INPUTA$:IFA$="N"THEN3
33 IFE<>0ANDA$<>"N"THEND=0:E=0
34 IFD=0THENINPUT"FILE NAME";F$
35 INPUT"{DOWN}TAPE READY";A$:IFA$="N"THEN3
36 IFD=0THENCLOSE3:OPEN3,1,0,F$:D=1
37 I=6912
38 GET#3,A$:PH=0:IFA$<>""THENPH=ASC(A$):IFPH=255THENPH=0
39 POKEI+B, PH:IFB<255ANDST=0THENB=B+1:GOTO38
40 IFB<255THENFORI=B+1TO255:POKEI+6912,63:NEXTI
41 IFB<255ORST>0THENE=1
42 GOTO3
43 PRINT"{CLR}";:POKE36869,240:PRINT"{RVS ON}WRITE DATA FILE{RVS OFF}{DOWN}
44 IFW=OTHENINPUT"FILE NAME";F$
45 INPUT"{DOWN}TAPE READY";A$:IFA$="N"THEN3
46 IFW=OTHENCLOSE2:OPEN2,1,1,F$:W=1
47 FORI=6912TO6912+B:IFPEEK(I)=0THENPRINT#2,CHR$(255);:GOTO49
48 PRINT#2, CHR$ (PEEK(I));
49 NEXTI:W=0:CLOSE2:GOTO3
50 POKES, PEEK (6848+8*R+C)+64*PT
51 FORI=0TO300:NEXTI:POKES,63:GOTO8
52 PT=PT+1:IFPT=4THENPT=0
53 GOTO8
54 POKE7922+B,8*R+C:IFB>0THENPOKE38641+B,6
55 PH=PEEK(6848+8*R+C):POKE6912+B,PH+64*PT:IFPH=63THENPOKE6912+B,63
56 POKET+B,6:B=B+1:IFB=256THENB=0
57 POKET+B,7:POKE38898,1:GOTO8
58 POKEZ+30720.7
59 GBTA$:POKET+B,1:IFA$=""THENPOKET+B,6:GOTO59
60 IFA$="{RIGHT}"THEN75
61 IFA$="{LEFT}"THEN77
62 IFA$="{UP}"THEN80
63 IFA$="{DOWN}"THEN83
64 IFA$="{LEFT}"THEN77
65 POKET+B,7:POKES,63
66 IFA$=" "THEN71
67 IFA$="D"THENPOKE251,B:SYS6696:GOTO58
68 IFA$="I"THENPOKE251,B:SYS6749:GOTO72
69 IFA$="S"THEN90
70 GOTO8
71 FORI=0TOB:GOSUB97:NEXTI:POKES,63:GOTO58
72 POKE7922+B, 8*R+C:POKE6912+B, PEEK(6848+8*R+C)+64*PT
73 IFR=7ANDC=7THENPOKE6912+B,63
74 GOTO58
75 POKET+B,6:B=B+1:IFB=256THENB=0
76 POKET+B, 7: GOSUB95: GOTO58
77 IFB<256THENPOKE38642+B,6
78 B=B-1:IFB=-1THENB=255
79 POKET+B,7:GOSUB95:GOTO58
80 POKET+B, 6:B=B-22
81 IFB<0THENB=B+264:IFB>255THENB=B-22
82 POKET+B, 7:GOSUB95:GOTO58
83 POKET+B, 6:B=B+22
84 IFB>255THENB=B-264:IFB<0THENB=B+22
85 POKET+B, 7:GOSUB95:GOTO58
86 PRINT"{CLR}";:POKE36869,240:PRINT"{RVS ON}CLEAR BUFFER{RVS OFF}{DOWN}
87 PRINT"ARE YOU SURE": INPUTA$
88 IFA$="Y"THENB=0:GOTO2
89 GOTO3
90 I=B
91 GOSUB97:IF(PEEK(6912+I)AND63)=63THEN94
92 I=I+1:IFI>255THENPOKES,63:I=255:GOTO94
93 GOTO91
94 POKET+I,6:GOTO58
95 POKES, PEEK (6912+B): RETURN
96 FORI=0TO65:NEXTI:RETURN
97 POKES, PEEK(6912+I): POKET+I, 7: IFI>OTHENPOKET-1+I, 6
98 IFPEEK(S)<128THEN98
99 RETURN
```

#### Phoneme Speak.t.prg

#### Code:

```
20 PRINT" {DOWN} {DOWN} {RIGHT} {RIGHT} {RIGHT} {RIGHT} {RIGHT}
{RIGHT}PRODUCTS":PRINT"{DOWN}{DOWN}{RIGHT}PHONEME SPEAK/T V1.0":FORI=0T09999:NEXTI
30 PRINT" {CLR} {DOWN} {RIGHT} {RIGHT} {RIGHT} {RVS ON} PHONEME SPEAKER"
40 INPUT" {DOWN } MAX PHONEMES"; MP
50 IFMP=0THENMP=1024
60 DIMPH%(MP)
70 INPUT" {DOWN} FILE NAME"; F$
80 PRINT" (DOWN)LIST PHONEME";
90 INPUTLS$
100 INPUT" {DOWN} TAPE READY"; A$
110 IFA$="N"THENA$="":GOTO100
120 OPEN3,1,0,F$
130 I=1:PRINT"{DOWN}{RVS ON}READING PHONEME #{DOWN}{DOWN}"
140 GET#3,A$
150 PRINT"{UP}";I
160 PH%(I)=0:IFA$<>""THENPH%(I)=ASC(A$)
170 IFPH%(I)=255THENPH%(I)=0
180 IFST<>0THEN210
190 I=I+1:IFI>MPTHEN210
200 GOTO140
210 CLOSE1
220 PRINT" {DOWN} {RVS ON} SPEAKING"
230 FORJ=1TOI
240 IFLS$="Y"THENPRINTPH%(J)
250 POKE38912, PH% (J)
260 IFPEEK(38912)<128THEN260
270 NEXTJ
280 POKE28912,63
290 INPUT"{DOWN}AGAIN";A$:IFA$<>"N"THEN220
300 END
```

Last edited by rmelick on Sun Dec 05, 2010 11:04 pm; edited 2 times in total

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rmelick Vic 20 Amateur



Joined: 26 Mar 2005 Posts: 47 Location: San Francisco, California, USA



Dec 05, 2010 10:51 pm Post subject:







# MAKE YOUR VIC-20 COMPUTER TALK

when you plug in our

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You can program an unlimited number of words and sentences and even adjust volume and pitch. · Adventure games that talk · Real sound action games

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#### Ouote:

Compute Gazette October 1983, p.140

**NEWS&PRODUCTS** 

VIC's Voice

Speakeasy is a voice synthesizer designed to allow voice to be added to adventure and cartridge games on the VIC-20. It comes in a cartridge that plugs into the VIC's expansion port. The synthesizer, produced by Personal Peripheral Products, can be programmed from BASIC or machine language by POKE-ing to only one address. The package includes an editor that allows the user to append, insert, and delete phonemes in strings to create phrases and sentences. The 256 phoneme buffer can be stored on tape or disk. The Speakeasy cartridge, including the editor tape, sells for \$79.

Personal Peripheral Products P.O. Box3423 Fox Valley Mall

Aurora, IL 60505

The photo was from July '83 (Compute Gazette's first issue). The product blurb was from October that same year. Interesting that Protecto was charging full retail and an additional \$15 for the software. Both companies were just 30 miles apart near Chicago.

POKE 38912 would seem to be the critical address mentioned in the blurb.



D Posted: Sun Dec 05, 2010 11:20 pm Post subject: SC-01-A



Here is some nice information on the SC-01-A chip.

http://redcedar.com/sc01.htm



Location: San Francisco, California, USA

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Vic 20 Amateur

rmelick

rmelick Vic 20 Amateur



Joined: 26 Mar 2005 Posts: 47

Location: San Francisco, California, USA



D Posted: Mon Dec 06, 2010 8:32 pm Post subject: Re: SC-01-A



#### rmelick wrote:

Here is some nice information on the SC-01-A chip.

http://redcedar.com/sc01.htm

Fascinating stuff. All the Votrax speech synthesizers owe their existence to the discrete speech synthesizer design created in 1970 by Richard T. Gagnon. In 1980, Votrax designed and manufactured an integrated circuit speech synthesizer called the SC-01/SC-01-A. This IC proved very popular in the third party market, and was produced until at least 1984. Here is a BYTE magazine (Features, Feb. 1981, page 164) article about the SC-01 by two Votrax Employees who married, left the company in 1983 and along with a few other former Votrax employees started ARTIC Technologies.

http://web.archive.org/web/19961220075353/http://www.byte.com/art/9602/sec5/art3.htm

Here is the phonetic speech dictionary. My guess is that the Protecto / Speakeasy expects decimal values (0 to 63) for the phonemes to be poked into 38912. http://www.riana.com/electronics/docs/sc01dictionary.pdf (3 is silent, by the way! That is a good sign.)

The example phoneme programming sequence: 3E, 11, 32, 31, 2A, 3E, 29, 34, 34, 2B, 3E, 1D, 06, 21, 29, 1F, 3E

Implied Protecto / Speakeasy POKE 38912 Sequence? (uncomfirmed): 62, 17, 50, 49, 42, 62, 41, 52, 52, 43, 62, 29, 06, 33, 41, 31, 62

#### Translation:

"Shut your face."

#### Should sound exactly like:

http://www.riana.com/electronics/sc01/sounds/sc01-shutyourface.mp3



Deposited: Tue Dec 07, 2010 5:26 am Post subject: ad





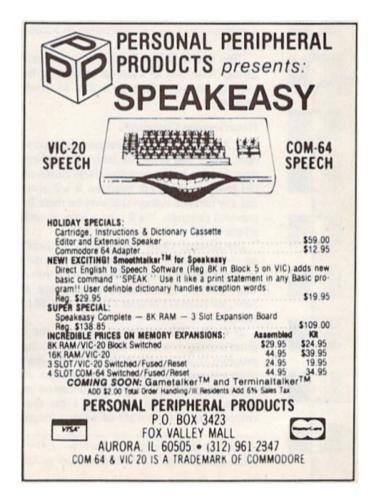








Joined: 26 Mar 2005 Posts: 47 Location: San Francisco, California, USA



Logo matches the Protecto unit. Looks like there may be some additional software out there for BLK5 that adds command(s) to BASIC:

Smoothtalker

Also mentioned:

Gametalker

Terminaltalker

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