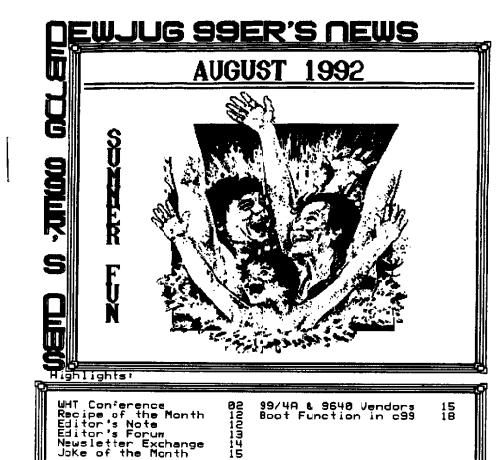


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Newsletter Exchange Joke of the Month



NEWJUG 99ER'S UG P.O. BOX 1469 SAVREVILLE, N.J. 08871-1463

WESTERN HORIZON TECHNOLOGIES

CONFERENCE

Sunday, July 12, 9:30 pm Don D'Neil discusses the products and services of Western Horizon Technologies Attendees:

JERRYC
CAL47
JHWHITE Jeff
EICHER Dan
DONEIL Don O'Neil
MICBRO
TIRUGED
DGAZSY

<Jeff> We are about ready to start.

(Don O'Neil) If I disappear tonight it's because my line seems to be a little noisy tonight, It's been like this for a few days. I may have to logon to a different node.

<Dan> Must be using that clone again ;)

<Don O'Neil> nope.

(Jeff) Okay. It is time to officially start. We'll
let Don have the opening remarks.

(Don O'Neil) OK, here is a short announcement....

#### \*OFFICIAL ANNOUNCEMENT\*

As of June 1992, the Accelerator as it was known is NO LONGER going to be available. Due to technical incompatibilities between the TMS99105 and the TI 99/4a, the accelerator will not function without MAJOR modification to the 4a console. The original concept for the accelerator was to have a user install—able CPU upgrade, with the modifications needed to make the 99105 work in a 4a, it would no longer be install—able by the average TI'er. The cost of the unit was also determined to be out of range of too many TI'ers, and thus the project has been canceled.

Page 02

HOWEVER, WHT is devoted to you the user and promises an upgrade for your 99/4s system. We will develop an INEXPENSIVE alternative to your 4s, using the 9995 microprocessor (found in the Geneve) so you can enjoy 100x 4s compatibility with increased speed. We are currently researching such a project and NO decisions have been made about how it will be configured. We will keep you updated on this project as progress is made.

Did that come across pk?

JERRYD> fine

(Don J'Neil) Any questions about it before we go on?

<Don O'Neil) OK, this evening I'm open to ANV questions on the following... SCSI, 4a MEMEX, DIGI-PORT, PROTO SERVICES, REPAIR SERVICES, ETC... Which is basically everything. I don't want to get hot and heavy into any "unofficial" products. But a few questions/comments are appreciateed. Where shall we start?

MICBRO> SCSI what peripherals do you see being used, beside HD?

(Don O'Neil) SCSI Floppy, CD ROM, Scenners, Tape backups. We will support HD's, FLoppy's, CD ROM, and 1 tape unit (the cheapest we can find). Scenners and other tape units will require special drivers to operate, but all neede infor will be in the doc's to create your own driver (provided you can program).

MICBRO> CD ROM requires a master - will the s/w support High Sierra ?

(Don O'Neil) At this point I'm not sure. I have been looking into the 2 formats, High Sierra and ISO 9560. We may support both, maybe only one. It depends on the information we can get.

MICBRO> How may devices (rames) can be supported?

(Don 0'Neil) We will ONLY support CD RDM's that are IBM compatible SCSI devices. What do you mean by devices?

MICBRO> number of different units, CD, floppy, HD, etc..

(Don O'Neil) Oh.ok. The SCSI card can support up to 7 devices in one chain, each device can be a floppy, HD, CD ROM, etc.

MICBRO> thanks. Why would I want a SCSI floppy?

<Don 0'Neil> Higher capacities. You can buy SCSI floppy drives that will format to 3.8 MB. You cannot get more than 720K on any existing TI controller card. The SCSI floppy drives will also be able to read and write IBM PC formatted floppies as if they were TI floppies. You will esentially have PC Transfer built in. Something that other floppy drive controllers do not offer. SCSI Floppies are only about &x more expensive than regulat floppy drives. A 4MB unit will be less than \$200. And it can read ALL ti ard PC formats up to 3.8 MB.

MICBRO> Who makes SCSI floppy drives now? And who has them in a clone?

<Don O'Neil> Teac, Matsushita, and others. They are not used in Clones... SCSI Floppies are used in the UNIX workstation industry where SCSI is the only mass storage interface. HP, Sun, Dec, NeXI, Mac, etc.. ga.

CAL47> Is someone (Jeff?) writing Hard Disk Manager software for SCSI card?

MICBRO> TI? Can the 9995 support the UNIX Kernel? I

(Don O'Neil) At this point Jeff is writing the OM, BUT we are searching for someons else to take on this task so it will be released sconer. We may patch an existing DM with SCSI routines, at this point we are undecided. You do not need to have a UNIX Kernal to have access to SCSI Floppies, or for that matter, ANY SCSI device. BUT, there is a version of UNIX that was written for the 990 business machines which used the 9900 as a CPU, and the 9995 is compatible with the 9900.

<Don O'Neil> ga.

JERRYC> general SCSI question -- I see a lot of devices that come with their own host adapter... seems to imply a lot of potential campatibility glitches. What causes this and how are you handling it?

(Don O'Neil) Most devices that come with their own host card are not true SCSI devices, they are usually some offshoot of SCSI. My suggestion is to Keep to the major manufacturers of SCSI drives. A list of tested compatible drives will be in the doc's, along with suppliers of these drives. ga.

JERRYC> Will you support "bridge boards such as the

Adapted units that attach to an existing MFM or RLL drive? c: It could also be that the device driver that comes with the host adaptor is fine-tuned to that card/drive combination. (Don D'Neil) If the units support the standard SCSI protocall and command set, then yes. If you buy a drive and wish to use it with your sesi card, we cam test it for you for free. If it requires a tweek to our DSR, we will supply that for a minimal cost. Chances are that 90% of the TRUE SCSI devices out there will be compatible, and many others will be too, ga. JERRYC> The reason I ask that some very good old drives are getting very cheap and the Adapted boards are also getting inexpensive, ga <Don O'Neil> I am not familiar with Adapted products, but will contact them asap. Will the SCSI coexist with a TI. Myarc or CC controller if an existing DM is Patched CAL47> CAL47> thanks. ga

(Dan) Don, Correct me if I am wrong, but whether the SCSI card will work on the geneve is highly dependent on getting the mdos source code correct?

(Don O'Neil) Yes and No. From what I understand, MDOS was the standard DSR links for doing everything but format, so It may be compatible in a Geneva through MDOS for everything but format. BUT, To ensure 100% compatibility (such as boot and format) the MDOS source will have to be patched. ga.

<Jeff> c: Chances at getting MDOS source code are very good. Find out Tuesday.

MICBRO> No. but with C and UNIX... lots of s/w avavailable. g'night - signed off -

c: For the SCSI to work on the Geneve without
changes to NDOS will be nearly miraculous. ga

<Don O'Neil> Agreed.

CAL47> But will GPL mode work without

<Don G'Neil> We won't Know until it's completed (the DSR).

c: Geneve-compatibility of any hardware not already supported by MDOS/GPL is not a current issue of concern. (Jeff)

(Jeff) Perhaps the discussion should move to 4A Memex

or WHT services.

<Don O'Neil> sure, any ?

く」せももう Which peripherals can you fix?

(Don O'Neil) Anything EXCEPT the Geneve and HFDC.

Perhaps you can go over your services, and what is planned for 4A Memex. 

(Don O'Neil) Well, so far on the 4a Nemex, progress is continuing. Since we had to change the design on the 4a Memex from a discontinued TI DRAM. controller to a state of the art AMD one, the capacities of 4a Memex have changed. 4a Memex will now support up to 16 Megabytes of DRAM in it's four SIMM slots. You can install 256k, 1MB or 4MB SIMMS. The base unit will come with iMB installed for prelim price of \$175.

> I have no idea when it will ship, as we only have one software developer working for us have one software developer working for us (Jeff) and one person can only do so much. It will have temporary RAM disk functions like the Geneve, and full RAMBO compatibilty. A: Beard has been contracted to port the FULL II C over to the 4a Nemex, and a copy will ship with each unit. the 4a Memex REPLACES you old II 32k card, and to take FULL advantage of it, you shouldn't have any 32k in your system except for the 4a Memex. except for the 4a Nemex.

Hopefully, it will open up the market for new ported C programs from the PC and UNIX world.

Any questions on 4a Memex?

JERRYC> Will it work with some of the speed-up hacks

like changing the clock speed?

(Jeff) good ?

<Don O'Neil> Yes, it will. The DRAM controller runs off of the clock on the P-Box Bus. It will have a

jumper for operations up to 25 Mhz.

<Don O'Neil> Basically, you will be able to run it up to 10

Mhz without a jumper change, and after chaning the jumper, up to 25Mhz. ga.

So some of the synergy intended for the accelerator may still be possible? JERRYE>

<Don D'Neil> What do you mean?

<1++> c: Even with the accelerator, that clock signal would probably not go above 6 MHz.

JERRYC> I recollect (perhaps inaccurately) that the MEMEX was to be capable of much better performance than with a standard 4a.

(Don O'Neil) Yes, It can run with a bus speed up to 25 MHZ, MUCH faster than any Known 9908 compatible processor. ga.

JERRYC> What would it take to make good use of this potential?

<Don 0'Nail> A Fast processor, such as the SMJ68689.

<Jeff> c: Which isn't all that fast.

<Don 0'Neil> Faster than any other 9900 compatible processor.

<Jeff> c: Not to stray off topic, but it is slower than the 99105A. It has a faster clock, but is still slower.

JERRYC> About how much could we tweek a 9900 in a 4a?

(Don O'Neil) Up to 4 Mhz.

JERRYC> So roughly double the standard speed?

(Don 0°Neil) No, the standard speed it 3 Mhz. 33% faster. We are hoping that the 4a Memex will be Geneve compatible, and if it is, with a MDOS patch. it could be used in place of the Geneve MEMEX.

JERRYC> Why such a modest increase - where is the limiting factor?

(Don O'Neil) 9900 speed. The Fastest 9900 you can get is 4

JERRYC> Doesn't the 4a insert a lot of wait states for memory access?

<Jeff> c: A very speed-limiting factor is the 4 wait states on the 4A bus.

(Don 0'Neil) Yes it does.

JERRYC> Any way around that limitation?

- <Don O'Neil> You could get a nice speed increase by
  eliminating 3 of the 4 waits, and going to 4
- JERRYC> YES that sounds 1.Ke a hummer!
- <Don 0'Neil> In a 4a console there is NO EASY way to get around it.
- <1eff> of I am not suggesting this, but it night be some thing Don and WHT may look intodoing. Making a 4 MHz 9900 motherboard without the wait states.
- (Don 0'Neil) The ERSIEST way to get increased performance and 99/4a compatibility is to do use the 9995 in a new system, similar to the Genevos. BUT, instead of emulating GROM, use the actual GROM's from your old 4a console.
- JERRYC> Is this the Kind of thing you were thinking of in your first comment tonight?
- <Don O'Neil> In that case the system clock could go up to 18-20 Mhz (4.5-5Mhz internal). Yes, this is.
- (Jeff) c: The 9995 causes some trouble spots that a 9900 at 4 MHz would not.
- <Don O'Neil> That would be a real screamer compared to the standard 4a.
- JERRYC> Would you be able to use those GROMs at that speed - if not, what options are there?
- <Don O'Neil> GROM's generate their own wait states, and will run as fast as they can. That's the nice thing about GROM's.
- The wait-state generation circuitry of GROM and II and CC FOC's. Forget about supporting the II 32K.
- Oon O'Neil> I Know about those concerns, and I think there are ways around them.
- (Don O'Neil> Any more ? on the la Memex? OK, I'll talk about the Digi-Port for a bit then. We are shipping Digi-Port now, and have been since the Lima Faire. Currently you get version 1.8 of the software, and version 2.8 is going to be avaicable soon. ALL registered users will recieve 2.0 for FREETTI.

Digi-Port is a Digital sound player for the 4a or Geneve and supports VDP, RAMBD. 32k and Geneve memory expansion for playback space. You can play back just about ANV digital sound generated on a Mac. Pc, NeXI, Sun. etc.. I have not yet found a sound I can't play. Versich 2.0 provides an XB link for playing

NEWJUG 99ER'S NEWSLETTER, AUGUST 1998 sounds with RAMBO, so you can incorporate sound effects in your XB programs. Each package comes with the sound adaptor (which plugs into your PIO port), the sound player and 10 disks of sounds (SSSD, DSSD< or DSDD). Price is \$40, available NOW! sa. I take it that version 2 is not available yet? (Don O'Neil) No, soon though. We are incorporating more features in v2 then previously planned, one of the reasons for it's tardyness. c: You have me to thank for any delays in the Digi-Port release. I tell people again and again that I am not a programmer. Bud put one in the mail friday. <Don 0'Neil> No. you're a perfectionist. Glad to hear that! <Don O'Neil> You will still have LOT'S of fun with version 1. There are only a few things missing... Cor COmp rs232 support, 88 Column support. Directory suppoprt, and the XE link, any more The only thing I'll miss is the directory. c: And the XB link may be an EA and MM link, too. But don't hold me to that. <Don D'Neil> Like I said, not much missing. EA link would be nice. that way. Well, if there are no more ?'s on Digi-port, I'll move on to my services, then to the Horizon 4000. c: EA almost without question. MM is a maybe (because of possible RANBO conflict).

- CAL47>

CAL47>

<Jeff>

CAL47>

CAL47>

CRL47>

<.leff>

- <Don O'Neil> Jeff, any link I've ever seen you make is like
  that, so I'll be surprised if it doesn't work
- <Don O'Neil> I offer a BUNCH of ROM and PAL replacement products for repairing your peripheral cards. Prices vary, so check the price list I uploaded here this evening.
- CAL47> EXCEPT Geneue & HFDC?
- <Don O'Neil> I also offer repair services for \$30/hr + parts on everything EXCEPT the HFDC and GENEVE> I do offer PAL's and EPROM's for the HFDC and GENEVE, but just don't repair them.
- JERRYC> [I will try to have Don's price list available

	tomorrow – Jerry3	Ī		Mills Services NO LONGER has ANY 9000 units for sale. Because of this, a new board house will be used, and the 3000 will be updated to add nore features., The 4000 will now support up to 8 MEGRBYTES of RAM disk, using 512k x 8
<don o'neil=""></don>	Most repairs are less than 1 Hr.			
CAL47>	Great news, PAL's			
<don o'neil=""></don>	We are also hoping to introduce a SPEED UP CHIP SET for the Geneve. This chip set will be a new PAL and EPROM that will give you better video performance. No price or release date as of yet.			SRAMS or 128K x 8 SRAMS (32K SRAMS will no longer be supported) RAMBO will be BUILT IN, and so will the 32K mod (empty socket for your 32K chip).  WHT has been asked to "simplify" the circuitry
CAL47>	performance? meaning what?			a bir for better performance/tolerance in your system. Overall the 4000 will be a better
<don o'neil=""></don>	The VDP access times will be reduces, giving you better performance in programs such as GEN SHELL.			more stable product for your 4a. The price will only rise marginally to account for royalty payments to OPA for the RAMBO addition.
CAL47>	Screen rewrites them?			Any ?'s on the 4000?
<pre><pon 0'neil)<="" pre=""></pon></pre>	Yes.		CAL47>	Has provision been made for the Phoenix mod on
<jeff></jeff>	c: Even faster Parsec at "GPL-5".			the new board?
<pre><don o'neil)<="" pre=""></don></pre>	My price list shows all currently availble products and services.		<don o'neil=""></don>	The PHOENIX mod is BUILT IN!!! With the removal of 2 jumpers, the card is now a Phoenix card. ga.
JERRYC>	Have you considered doing pieces for some the rarer hardware - say hexbus peripherals?		JERRYC>	What is your estimate of prices for the large SRAMs?
<don o'neil=""></don>	What do you mean by "pieces		<don o'neil=""></don>	around \$150 I guess. They are still not widely
JERRYC>	PRLs and such (ROMs?)		(EDBUG)	available.
<don o'neil=""></don>	Well, if I can get a working PRL, most of the time I can duplicate it. SD, if somebody asks.		JERRYC>	and the 128s?
	I can try to look for a replacement product for them. BUT IF "OU DON'T ASK I WON'T LOOK!		<pre><jeff></jeff></pre>	As cheap as you can find them. \$30. (From WHT and BMS)
(PARILA)				
JERRVC>	Interesting I have some old stuff and no recourse if something fails.		JERRYC>	Sounds like 128 is still less per meg (for now).
<don 0'neil=""></don>	Jerry, If you send me the units, we can work out a deal for making you a back up.		<don 0'neil=""></don>	Yes, true, the 128's are still cheaper. BUT the 512's have not been out very long yet, and
JERRYC>	Sounds good - let me do a mini-inventory ard see what you might be interested in.		JERRVC>	Any guesses as to when they will reach parity?
<don 0'neil=""></don>	OK. Any ?'s on my services and repair parts?	•	<don o'neil=""></don>	I'd have to guess within a year. The manufacturers of the 512K units are still making them hybrid modules.
JERRYC>	I'll send you a list some time this week.			
<don 0'neil=""></don>	great.	) <	<fre><fre></fre></fre>	From what I understand, the 4000 will have more telerance for "off-brand" RAM chips, i.e., not tuned to particular manufacturer spec's like the earlier Horizons (and Geneve MEMEX, for that matter).
On to the	HORIZON 4000 RAM DISK			
<1eff>	What new features does it have?			
<don 0'neil=""></don>	Recently the board house manufacturing the Horizon 3000 RAM disk went under and took all the 3000 stuff with them. At this point, Bud		<don 0'neil=""></don>	Yes. Any more q's?
			JERRYC>	Thanks Don.
<del></del>	Page 18			Dana . 11

<Jeff>

Unless there is something left\_to discuss. I suppose it is time to close. Thanks for coming, Dor. WHT has some very interesting projects.

<Don O'Neil> Thanks for having me. If anybody has ANY
questions, please fell free to call. EMAIL or

JERRYC>

I'm closing my log and going to check Don's files - Goodnight all.

<Don O'Neil> Goodnight|

--- END ---



# **RECIPE**



BY: DEBBIE GAZSY

#### INGREDIENTS: RATATOULLE

1 Eggplant (Medium Sized ~ 1.5 lbs) 2 Small Zucchini (1/2 lb) 1 Green Bell Pepper (Chopped ~ 1/2 cup) 2 Tomatoes (Cut into quarters) 1/4 cup Olive Oil or Vegetable Oil 1 1/2 tsp Salt 1/4 tsp Papper 1 Clove of Garlic (crushed) 1/4 cup onions (chopped)

To prepare Eggplant, cut it into cubes, put it in a strainer and add salt. Flace a weight object on top of the eggplant and let it stard for 30 minutes. The purpose of the weighted object is to squeeze the bitter taste out of the eggplant. Wash the eggplant and pat dry. Place oil, eggplant, zucchini. onion, garlic and green pepper in frying pan. Şaute and cover for 10 minutes. Now add the tomatoes, sait and pepper to taste. Cook until tender (Minimum of 5 minutes), Serves 6. 

### Editor's Note:

During the next 6 months, I won't be able to devote as much time to the newsletter as I'd like. In order to still be able to produce a morthly product. I've got to cut back some of the more time consuming parts of the newsletter, As you might expect, the research and creation of the BBS SCENE column takes too much time to be a regular article. When my workload lessens, the column will be back. Editor's Forum

Where are we going? is one question I find myself always asking and a question that appears on the minds of many others. When Texas Instruments put us up for adoption, we were many in number and there were snough of us to insure our survival. Many of the TI owners stepped forward and took on responsibility Colub officer, librarian, etc.). For most, other non-II duties suffered or were neglected. I find myself painting the exterior of my house and wish my Kids were old enough to inherit some of

my other household chores. As time passes, our numbers begin to dwindle. Those of us who are always volunteering or devoting time to TI activities, are growing tired of being the only volunteer-in-town. If any of you spent any time in the armed forces, you learned the following Phrase quickly: "Don" volunteer for ANVTHING"

Well in case you hadn't noticed, these seats that used to be filled on your left and right at plub activities; have VRCANCY signs on them. It's hard enough to get a chair occupied with a body to volunteer. It's impossible to get an empty chair to do anything but take up space. If you want to see the II survive, then raise your hand the next time something needs to be done and say, "Mr President, I'd like to volunteer for that task".

While reading some of the newsletters that we get in exchange, there were two items that caught my interest. The first concerns the reprinting articles from other newslatters and the second concerns the frequency of exchange newsletters. The reason these caught my eye was that I feel that our group is guilty of at least one of these crimes on a frequent basis. When I first took over the newsletter, I vowed that I wouldn't reprint articles from other newsletters. My feelings on the issue where that the newsletter should contain ORIGINAL material. When deadlines for newsletters get short, ve sometimes compromise our ideals and reprint articles. The one thing that I try to faithfully adhere to is, "giving credit where credit is due". To insure that credit is given, put a banner and page number on each page of your club newsletter. This way, credit is easily established when the article is copied or reprinted. Irregular exchanges is something of which our newsletter is frequently guilty. In the two and 1/2 years as Newsletter Editor, I've monaged to miss only one US mosting deadline, but the newsletter has to be reduced in size, copied and mailed on a bi-monthly or quarterly basis to Keep our costs down. If you seem to be getting our newsletter every second or third month, please be patient with us; we're just trying to remain solvent.

# Newsletter Exchange

Last month, I published a exchange column. only to have another new exchange start a few days later. The following list represents the latest and greatest exchange list for our group. He look forward to hearing from any group wishing to initiate an exchange and encourage others to use this list for communication with other groups. If you know of any UG (not on our list) that would like to exchange newsletters, we'd be very interested in hearing from you via the comments and suggestions on the cover page.

North Jersey TI IBM UG 16 Judith Ann Dr. Ringwood, NJ 07456-1863

Central Garden State UG 61 Country Lane Hamilton Square, NJ 08690

LITI 99er's UG 93 Myers Avenue Hicksville, NV 11801-2424

Twin Tiers UG c/o R. Sass 97 Fir Tree Point Rd. Rock Stream, NV 14878-9707

Pittsburg User's Group P.O. Box 9043 Pittsburg, PA 15816

Erie 99'er User Group 2012 West 39rd Street Erie, PA 16506 Lehigh 99er Computer Group c/o Jack Zawediuk 719 N 12th Street Allentown, PA 18102

\*MANNERS
 c/o Bill Howard
 15284 Louis Mill Dr
 Chantilly, VA 22021

Broward Computer Group c/o Mark Wacholtz 214! NW 64th Ave #15 Sunrise. Fl 33313-3950

CONNI 181 Haischman Aus Worthington, OH 49085

N.W. OHIO 99'ers User Group \*First Church Unity 3535 Excutive Parkway Toledo, OH 43606 Attn: Earl W. Hoffsis

\*Cleveland Area 93/4a UG c/o Harry Hoffman 1925 Trowbridge Ave Cleveland, OH 44109

\*Greater Akron 99er's c/o Jim Harris 2022 Tenth Street Cuyahoga Falls, OH 44221

Lima 99/4a Users Group P.O. Box 647 Venedocia, OH 45894

Great Lakes Computer Group P.O. Box 152 Roseville, MI 48866-0152

Milvaukee Area Users Group 4122 N. Glenway Wawatosa, WI 53222

Siouxland 99er's c/o Bob Daggitt 4606 Bluestem Circle Sioux Falls, 5D 57106

Chicago TI User's Group P.O. Box 578341 Chicago, IL 60657

\*Kansas City TI99/4a UG c/o W. Blood 2036 N. 92nd Street Kansas City, KS 66104 Dallas TI Home Computer P.O. Box 29863 Dallas, TX 75229

\*Net99er HCUG c/o Barbara Massey 9209 Amber Dr. S. Fort Worth, TX 76133

\*Houston HU6 c/o R. LumpKin 1161B Inga Lane Houston, TX 77064

\*JSC II99 User Group c/o P.C. Van Nordstrand 490 Shadow Creek Rd. Seabrook, 1X 77586

The FRONT RANGER P.O. Box 9572 Colorado Springs, CO 80992-9572

\*TI Staves 1396 Lincoin Apt #B Ogden, UT 84404

Southwest Ninety Niners P.O. Box 17831 Tucson, AZ 85730

Southern Nevada UG (SNUG) P.O. Box 26907 Las Vegas, NV 89126-0301

\*LA 99ers Computer Group 7790 Emerson Ave Los Angeles, CA 90045

North County 99ers UG P.O. Box 2500 Escondido, CA 92025

UGOC c/o Earl G Raguse 1716! Edwards Huntington Beach, CA 92647

WORDPLAY
The PUNN Newsletter
P.O. Box 15097
Portland, OR 97215

∺Kawartha 99er's 224 Woodward Ava Peterborough, Ontario CRNADA K9L 1J7 9T9 User Group c/o Steve Mickelson 15 Kersdale Avenue Toronto, Ontario CANADA M6M 1C9

Sudbury 99er's c/o Jim McLaren Site 1 Box 7 Whitefish, Ontario CANADA POM 3E0

B.C. 99er Users c/o Ron Warfield 216 10th Aue New Westminster, B.C. CANADA USL 282

## Joke Of The Month



A devout Catholic women was running late to church when, in her haste, she stumbled and fell, skinning her elbows and knees, and splitting her skirt up the back.

Dazed and confused, she glanced up and sav a small boy watching her. "Is mass out? she asked.
"No. ma'am." he replied.
"but your hat is on crooked."

99/4A & 9640

**VENDORS** 

Alboes Computer Supplies 6298 Hemilton Rd. 36 Main Street Village Columbus, Ga 31909 (404) 327-4900 Asgard Software P.O. Box 10306 Rockville, Md 20050 (703) 255-3005 Catalog Available

Breatz Computer Services 719 East Burd Street Appleton, Wisc 54911 (414) 731-3478 (414) 731-4320 after 6pm Catalog \$2

Bud Mills Services 166 Dartmouth Or Toledo, Ohio 43614 (419) 385-5946

CaDO Electronics 52 Audubon Rd. Havermill, Na 01030 (603) 895-0119

Competition Computer 2629 W National Ave Milwaukee, Wisc 53204 (800) 242-7902 in Wisconsin (800) 662-9253 all others Catalog \$1

Comprodine 1949 Evergreen Ave. Fullerton, DA 92635 (714) 990-4577 12-9pm PT

Computer Shopper P.O. Box f Titusville, F1 32781

CorComp 2211-G East Winston Rd. Anaheim. Ca 92806 (714) 956-4450

Dijit Systems 4345 Hortensia St Sen Diego, Da 92163 (619) 295-3301 voice (619) 278-3155 bbs

Senial Computerware 835 Green Valley Dr. Philadelphia, Pa 19128 (215) 483-1379 Great Lakes Software 804 E. Grand River Ave. Howell, Mi 48843 (517) 546-0566

Harrison Software 5705 40th Place Hyattsville, Md 20781 (301) 277-3467

Hunter Electronics 4 N. 370 Pine Grove Bensenville, Il 60106 (312) 766-9503

Insembot Inc. P.O. Box 29160 Pt Orange, F1 32029

Jim Lesher 722 Huntley Dellas, Tx 75214 (214) 821-9274

Joy Electronics P.O. Box 542546 Dallss, Tx 75354-2526 (900) 422-3892 in Texas (800) 527-7438 all others

L.L. Conner Enterprise 1521 Ferry St. Lafayette, In 47904 (317) 742-8146

McCann Software P.O. Box 34160 Omaha, Ne 68134

Micropendium P.O. Box 1343 Round Rock, Tx 78688 (512) 255-1512

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## Betting A Real Big But of **c**99

ΒŲ

DAN GAZSY

Over one year ago, Bruce Harrison published an erticle in MicroPendium for a universal boot function to detect the boot device of program image files. The original article was geared to both assembly and basic language programmers. I took the code and put it within a c99 environment for other c enthusiasts. At the time. I found it capable of working with any FDC (floppy disk controller) and ramdisk devices. Recently, it had been discovered that although it would detect the moot drives attached to an HFDC, the code rendered floppy devices attached to the HFDC, incapable of file i/o afterwards. With the assistance of Jesse and Shirley Slicer, this bug in the boot function has been corrected. Listed below are the source code for the boot function and a simple test of the boot function.

```
/× device function adopted for use with c99
   original source provided by Bruce Harrison assembly source code modified by Jesse Slicer
   to work with floppy/hard drives attached to a MYARC HEDC.
   And a special thanks to Shirley Slicer for her
   assistance in identifying the problem code
```

```
#asm
      EQU >208A
CUS
ŠTATUS ĒŪŪ >037Č
  #endasm
entry boot.device:
char boot[6]:
device()
  { Masm
```

DEC

JNE

MOVETT

STASH THE RETURN
USE OUR WORKSPACE
GET THE CRU BASE IN R12
GET THE ROM ADDR FOR DEVICE
POINT TO THE TEXT BUFFER
ENABLE THE ROM
ADDING 4 PUTS YOU AT LEN BYTE
PLACE IT IN R4 AND INCREMENT R9
RIGHT JUSTIFY LENGTH IN R4
MOVE 1 BYTE FROM ROM TO BUFFER
FINISHED? MOV 11.0>8330 LWPI WS **€**>8300,12 •>8302,9 10.BOOT >00 9,>0004 MÖVB ¥9+,4 4,>08 SRL MOVE MOVEIT ×9+,×10+

```
NO. DO ANOTHER BYTE
Page 18
```

```
DISABLE THE ROM
PUT NULL BYTE AT END FOR C99
LOAD GPL WORKSPACE (ALSO C99 WS)
GET RETURN ADDRESS BACK
CLEAR THE STATUS BYTE
(R4 IS ZERO AT THIS POINT)
                    >00
           MOU
                    4.×10
           LWPI
                    CUS
           MOU
                    •>0330.11
           MOVE
                    4. OSTATUS
      *endasn
/* Simple test program for the boot function */
extern printf().device();
extern char boot[]:
main()
   (device())
   printf("boot device was %s\n",boot);
```