FROM:

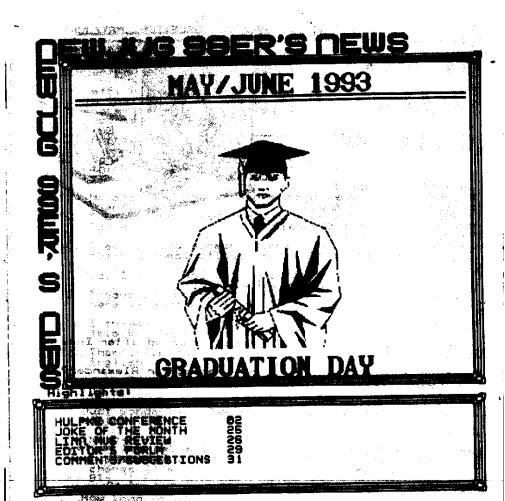
MEUJUG SSER'S UG
P.O. BOX 1463
SAVREVILLE, N.J.
88871-1463

POSTAGE GOES HERE



TO:

AFFIX MAILING LABEL HERE



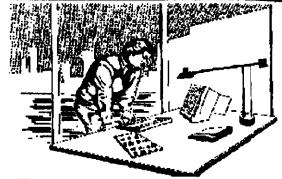
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NEWJUG 99ER'S UG P.O. BOX 1463 SAYREVILLE, N.J. 68671-1463

FXANDER



JHWHITE COGUEST KREECH TIRUGED KARLO EICHER

Jeff14 Alexander J W Kruch

Karl (Trissl) Dano

JERRYC BRADSNYDER

Brad John

JCARUER CAL 17

(Sylvain Paquette)

VPSELON DUNNELLS 9640NEWS MICBRO JSYZDEK

Joe

C unedited chatter before our guest returned after Internet gume off]

.J W Krych> is there going to be a delay for Alexander? .J W Krych> because of the distance?

.Jaff#> There could be. Jim.

.Jeff#> Internet is Known for celays.

.J W Krych> about a sec

.Karl> Vesterday evening I phored Alexander and he told me that there is a huge delay on his Internet connection...

JERRYC> Karl. Are you logged in through Internet?

.Karl> It's not the distance, as I'm on the same distance. But I don't use Internet. I use the public DATEX-P.

.Dano> The Delay with Australia didn't seem to bad.... .Dano> Jerry, While we are waiting, any comments on the

ndos paustem?

.Karl> The delay I usually have to DELPHI is below 2 sacords.

.JeffW> Alexander, we normally start a few minutes late. I'll officially open the conference in a few minutes.

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.Danc> Jeff, Traveling at the speed of sound, how long would it take Karl's message to reach you?

.Alexander> - signed off -

.Karl> Jeff, Alexander told me the Internet system he uses is that slow, that sometimes he is automatically logged off because the DELPHI timeout is over. How much is this timeout ?

.JeffW> not sure, Karl.

JERRYC> Dan - I stepped away for a minute - RE: Psys, I think Clint's clear screen Key may be messing up some of the utilities...

.JeffW> We are waiting for Alexander to get back before we

.JeffW> Did everyone read his intro message I left in the Forum?

JERRYD> I am getting screen clearing in response to some of the Key combinations used in the Psys...

.Korl> Vcc, I did . And I translated the Mann quote....

.JeffW> I have his message in 4 chunKs that I can display here if anyone missed it.

JERRYD> I think I will try an older version of MDCS before this bug (aka "fix") was introduced.

.JoffW> Thanks for the translation. Kerl. It made sense in English.

Dano> it did?

.Dano> +>

.Dano> Jenny do you have a genmod?

.Dano> Just wondering if poode can run at zero wait states....

JERRYS> No Dan - just the 512 MEMEX

.Jeff#> I almost took my modem cable apart this morning to change it around some. I decided against that. .Jeff#> BTW: I have only been up 23 hours or so.

.Dano> How long do you think it will be before Rick Rosean gets a chance to look at the personality card. I Know of at least 3 people that would like to know how to make one run with a geneve.

JERRYC> Dan - At least Richard has his 9640 running for a change.

.Dano> Is that to imply. it may be a while?

.karlz I'm the 4th people who has interest in getting a personality card work or the GENEUE III

Dano: Jerry, I know of at least 4 people that.....

- . JaffW> I saw an interesting message on GEnie from Baery Miller this morning. Seems Don Walden has worked out some agreement with Low Phillips regarding Geneve motherboards.
- .J W Krych) yes he did, finally -- even got some old motherboards
- .JeffW> Not sure what that means though.
- .Dano> When I talked with Don this week, the bad news is.
 SMC is discontinuing all MFM controller chips,
 including, but not limited to the 9216b's.....
- .JeffW> Does DonW plan to produce Geneva motherboards?
- .J W Krych> 9640's that were rejects for one or two paris
- .Deno> Jim. Lou told don to expect even more non-working equipment shipments from him ...
- .JeffW> That's okay, Dan. Western Digital second sources the 9216(b).
- .Danc> Jeff. don told me that western digital did NOT make the 16'b version...
- .Karl> (_/send KREECH Bist Du Deutscher von Abstammung (_oder hast Du anderswo so gut deutsch geleernt ?
- .JeffW> I think the WD part is rated the same as the SMC b-version.
- .Karl> (- <-- sorry for these garbage, that's always mace by my phone link to the PAD.
- .JeffW> Discontinuing the parts means there will be a good deal out there, though.
 .JeffW> Hi. Cal.
- .Jerius ni. Cai.
- .J W Krych> hi Ca.
- SAL47> mornin' Jeff.
- .Danc> When is Fest WEst?
- .Karl> send KREECH Bist Du ein TI oder GENEVE user ? Habe Dich noch nie hier gesehen bzw. gelesen.
- "Karl> Hi Cal.
- .JeffW> Fest West is next Saturday and the following Sunday.
- CRL47> Hello Karl.
- .Dano> It will be interesting to see if anyone introduces any new hardware/software....
- Jefful Boes Conu have enough 92168's to repair HFDC's?

- .Dano> yep.
- .JeffW> That's good. Beary also said that TM Direct and Dhein's would be getting some HFDC's from Lou scon. The source codes to MDMS and MV-Word are also being obtained.
- .Dano> (yes, those are the ones don has just spent the past 4 weeks repairing).
- .JeffW> Does port 3 work on them. Dan?
- .Dano> I don't think so.
- .JeffW> Does port 2?
- .Dano> Ves, would be my guess.
- CNLU?> Jeff, get a chance to check out video PAL situation?
- .JeffW> Not yet, Cal.
- .Karl> (_HDS3 is a very strange software bug I think.
- .Dano> Jeff, in the orginal MDOS does their was a command to switch the display left and right... probably by modifying the frequency rate.... Do you Know if that is possable with a 9938/58?
- .JeffW> Karl, I think the HDS3 port has a hardware (not software) problem. I have devised a possible fix.
- .Dano> I have been studying the PC BID's..., Been sending Beery messages once a day....
- .JeffW> However, I am reluctant to try a fix when I only need the HDS1 port. The fix would require modification to the DSR.
- .JeffW> Vou can adjust center on a 9938/58, but it is not by modifying the frequency rate (whatever that is).
- KARLUz Don't Know what happened. was signed off the conference. But I'm back.
- .Jefful> Probably a spurious ^Z got mixed in your roise, kar:. Wonder if Alexander is having any luck getting back on Internet. Cal, I need to install the video PAL on another Geneve to test.
- KARLO> I did a lot of hardware tast with the HFDC (see my forum msg about that). Found no hardware bug. Would be interested what you found.
- ...sffd> Well, it is most likely a "firmware" bug that resides inside the 9234 chip.
- MORLO> Or in the EPROM 222
- .Joff⊎> Very unlikely is it in the EPROM.
- KARLO> Guest, we should discuss this in the forum.

register. leffW> Well. the conference will be pratty boring if we just sit and stare at the screen.

KARLO> I Know that, that makes it that strangs.
KARLO> By the way | Now I Know why I have to pay much more for my DATEX-P link: It,s reliable !!!

.Dano> Karlo, can you give alexander a call and see whats

.JeffW> But the "firmware" inside the 9234 could be the culprit. It requires much technical speculation that would best be put off.

KARLO> Alexander told me he has delays of up to 5 (1) minutes over INTERNET from his university.

.Jefill> Alexander is at the university, not at home. Dan. Alexander does not have a modem at home, and he says the postal service requires some sort of registration of modems.

KARLO> Actually it is not the modem that requires a registration, but the access to the public DATEX-P does. And it is expensive. When I applied for the postal access to DATEX-P, nobody asked me about my modem. I use a LIGHTSPEED 1200, which is not officially permitted in this country.

.JeffW> Yes, I hear that only 300bps acoustic couplers are sanctified.

.JeffW> We got a nice crowd for the conference.

.J.W Krych> yes

-

.weffW> Too bad our featured guest is having trouble.

Krych> when ISDN comes-no trouble!

kall()> No, it's not a question of 1200 baud or not (I use the 1200 baud service). It's the German burocracy that only permits what is tested.

mano> According to the Bill/Al combo, they are going to work hard to create a national electronic data interchange infastructure....

|確保RVC> An "import barrier"?

.j W Krych> Karlo, is the 50 Hz power rfree a problem for most hardware?

.Dano> humorus image, Bill Clinton with a Fizza and coke, hacking away....

. J W Krych> ole slick willie

Denot into the wee hours of the night, as secret services

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agents look on.... .J W Krych> thinKing....who can I tax next!

.JeffW> Wasn't coke, Dan. It was weed.

.Dano> Jim, this is not a political forum, your remarks may tend to upset others.

KARLES No import barrier, because the permitted modems are not German either.

JERRYC> When he came over to our shop last week sh was complaining about the White House telephones.

.Danc> Tell him you have to dial, 9 to get out!

... W Krych> hahaha

.JeffW> And it wasn't pizza...

JERRVE> He doesn't want to get out just yet.

KARLO> It doesn't matter for the rectifiers in the power supply what line frequency it is ...

JERR#C> He couldn't set up a conference call from his office, and people Kept picking up extensions during his calls!

.Dano> Jerry, isn't their suppose to be someone come in and brief the new president on how to use a phone?

.J W Krych> they partied too much

JERRVC> There is an old-style switchboard, but they haven't named an operator yet (joke guys).

.J W Krych) hahaha

.JeffW> Dan, in Arkansas they only have tim cans and string.

.J W Krych) hahahahahahahahalilil

.Brad.> Dano, maybe the president could ask Mr. Clinton how to use the phones.

.Damo> I voted for Bill, but, I don't remember voting for Hillary! *)

્ડા આ Krychy that is good Brad ે

ran. - Asand KREECH Schreibst Du Software fuer ASSARD ?

THEM?/ In Montana we use smoke signals for communications!

JERRYČ/ Actually the White House system is pretty old.

Bill Clinton was quoted as saying today - "Yes mama, your the boss"!

offW> I've been awake nearly 24 hours, and I am still as lucid as all of you. Think about it.

Brad. > Could I sneak a TI question in here while we're waiting?

.Dano> Why Sure.

.JeffW> Of course, Brad.

JERRYC> During my grad school exams i was 44 hours up - 4 hours asleep for a week <never again>.

.Brad.> In doing file access in assembly, is it "cool" to just check the file status....

.Brad. > byte for the end of file error, or should you

.JeffW> Probably capends on controller, Brad.

.J W Krych> I will take questions about AMS/AEMS.

.JeffW> I recommend you make the separate DSR call to check status. What does the E/A manual say to do?

.J W Krych> or shall we just concentrate on other stuff.

.Brad.> I wonder how much time the separate call uses, but right now I am using the separate call.

.Dano> I am reading a good book called the zen of assembly....

.JeffW> Jim. that <g> at the end of my sentence was meant to indicate I was sort of joking.

.Brad.> It just seems that the info I am looking for is already in the error flags byte.

.JeffW> But any questions are velcome.

.Deno) what we need is a routine that we can call that will set the 9901 times to zero, and start it ticking.

.Jeffy> Unt.1 our guest returns.

.Dano> Then we could do some assembler code of our own....
.Dano> Then call another routins that would turn off the timer a stask the number of cycles that had be

.Dano> So we can tall how fast a routine actually runs.

.Jeffw> Why not just add the cycles?

.JeffW> Hi, Sylvain.

VPSILON> Hi. all...

.Brad.> Dan, Bruce Harrison already did something like that to tell you how fast the computer you are running it on is.

.JeffW> Our guest was booted by Internet before we could start. We are anticipating his return any moment.

JERRYC> Bonjour Silvain

, JeffW> <the English spelling>

VPSILON> Bonjour? Vous parlez francais!!

JERRYC> Un petit peu

VPSILON> ? Alex? Do you have any plan to release a new version of Vapp??

.Dono> Coutining Cycles means nothing in a pipeline archetecture.

.JeffW> What. Dan?

.J W Krych> in the 68689 it would.

JERRYE> Silvain - we lost Alex to an Internet burp.

.Dano> In fact, we have need since the inception of the geneve an optimizing compiler, that will take advantage of the pipeline archetecture....

VPSIEDN> OH... no! What a mess!

.J \mbox{W} Krych> Silivan, I was sending you a message in German. Sorry.

.JeffW> Counting cycles does work, Dan.

VPSILON> Okay, Did anyone catch a ref to Yapp updates?

.J W Krych> on the 68689 the cycles are nearly the same as the 9900 just the clock speed is much greater

.JeffW> Sylvain. Alexander got Kicked off by Internet before we could begin.

\PSILDN> Oppps... Well it will be for a next time, then!

.Dono> Jeff, I will send you latter (when I dig cut my reference material), more detailed instructions of what I am talking about.

.JeffW> We are waiting for Alexander to return, Sylvain.

.John> - signed off -

.JeffW> Dan, I understand what you are talking about.

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/PSILDN> We.1, I'll come back later, then, Bye all!!
/PSILDN> - signed off -

.J W Krych> take care

.Jeff#> Which processor(s) does "Zen of Assembly" discuss?

.Damp> jeff did your order a prom burner?

.J W Krych> jeff do you know about the 68689?

.Dano> 80×86

.J W Krych> I have started the first volume to "ON ASSEMBLY"

.Dano> Jim, have you tried talking to a jerk at TI by the name of Charles Brickly?

.JeffW> Maybe we'll have you discuss that at a conference someday, Jim.

.J W Krych> I am still taking code examples from you masters out there!

.Dano> He is the man they refer all 9900 questions to, and all he says is, "that processor is really not supported.."

.J W Krych> Dan, no.

.Karl> yes, I know, Jerry, but this funny "(=" that's always made by my teleptone line, makes the "/" unvisible for the system.

.J W Krych> I have only talked with the missles systems!

.JeffW> Non-optimal architectures require optimizing assemblers/compilers. You can quote me on that.

.Dano> I still think the '105 is the best of breed.

JERRYC> Right Karl -- the \ must be the first byte of the line.

.Dano> maybe since the 68689 is an asic chip you could get them to port the '105....

.J W Krych> yes. But since it is discontinued and the 68689 Is going to be around for at least 10 more yearsi

Dane) I worder what the actual production cost is on a 68685 and '105....

.JeffW> Karl, use control-U to clear your buffer before typing.

.J W Kruch> the "689 is getting cheaper

.Dano> what speed dram would you need to run the '689 at full tilt....?

.Karl> Jeff, I use ctrl-U in front of each line, but the noise is faster sometimes!!

.Dano> also the '689 does not have macro store capability.

.J W Kruch> the '689 runs at OHz to 15Mhz. II runs theirs at 20MHzl

.J W Krych> no it does not [haue macro store].

.Dano> macro store is kind of rice. I managed to beat the 99110 macro code out of them.... (source for floating point emulation).

.JoffW> The 68689 does have the MID interrupt trap, I think.

CAL47> - signed off -

.JeffW> But not a terribly good floating po.nt implementation.

.J W Krych> the missel systems group needed a replacement for the 9989, the 68689 does take some of the best from the 99000 family missile.

.Dano> ah, the 9989 the original processor for the 99/4a

.JeffW> Nope, the 3985.

.J W Krych> MultiProcessor Interlock.

.J W Krych> Extended Instruction Processor Present!

.JeffW> The 9989 was a bipolar chip.

.Danc> ok, thanks

.Karl> It's really a pity: The first c(_onference I take part has no conference guest. All other conference are too late for me (far after midnight).

.J W Krych> IIL logic

.Jeff#> Well, we could have other conference Saturday mornings if that is when people want to attend then.

.Dano> works for ms.

.Dano> (except in the summer)
.Dano> Jim. one place the concern me is 9901. they seem to be getting harder to find...

JERRYC> Notually Karl - some of our best stuff happens before and after the conference quest speaker (q).

.Karl> You should not change the schedule just for me. I cannot participate very often due to the costs,

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anyway i

- .J W Krych> yes they are dan.
- .Qano> Oo you think you could ask your buddys in the missle systems group for the logic diagrhms to the 9901 and
- .J W Krych> TI didnt say what the 68689 uses. But that they
- .JeffW> Well: Karl: attendance seems to be better than it was last Sunday.
- JERRYC> Karl do you find ASCII or compressed transcrifts cheaper to download?
- .J W Krych> Super Bowl Sunday
- .Dano> I would like to try an implement a 9901 on a gal or asic chip....
- .JeffW> Just that Internet is not cooperating.
- .J W Krych> would need an FPGA .J W Krych> the 59589 is a nice processor
- .Dano> I can't even afford a pal programmer though, so a 50K FPGA unit is definately out of the question! : (
- .J W Krych> CMOS, low power, sep data and address bus. one chase clock!
- .JeffW> Maybe an FPGA, Jim. But most of the 9901 could be done in a GAL.
- .JeffW> Cor two)
- .Dano> I have looked at FPGA by Mitshubishi and Xeltor
- .Karl> Jerry, as I said in the forum a few days ago, I'm not able to download anything what is compressed. ASCI works.
- .JeffW> Xilinx, maybe, Dan?
- .Dano> yes, thanks,
- .J W Krych> TI sent me a demo of their FPG
- .Dano> O' have you seen the new chips by TI that include built in diagnostics?
- . ا لا Krych> yes!
- .Dano> Ieee standard something or rather... II has a really nice po based demo for them also....

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- .Dano> Cool ...
- .J W Krych> the TI FPGA's are impressive

- .Dano> I tried to talk don into implementing some of them on the sosi and 4a memex with out success....
- .J W (rych> only if he were to sell tens of thousands!
- .Dano> All you would need is to run a couple of extra lines and put some type of connectory to access them....
- .ប W Krych> volume is needed!
- J W Krych> But they are nice monetheless
- JERRYC> How about defining FPGA for the record?
- .J W Krych> Field Programmable Gate Array
- .Dano> Field programmable gate array.
 .Dano> Also if someone WRS to come out with a NEW rs892...
 Vou could easily implement a dual parralle!/IEEE interface....
- .Dano> Ti still supports the 9919 GPIB interface.
- .J W Krych> yes. But either way a new UART = NEW DSR .J W Krych> replicating the 9902 can be expensive
- .Danc> TI's IEEE card had built in calls to change between talk/listen and plo access....
- .JaffW> Er. 9914 GPI8.
- ل ال Krych> for the TI 4A
- J W Krych> community J W Krych> General Purpose Interface Bus
- .Dano> Unfortuatley, you would have to keep 9902 compatablity because ALDT of software is graned for
- J W Krych> Such is life.......
- J W Krych> not to be cruel.
- .Jefally Fortunately, there is nothing wrong with the way the 9902 works.
- .Karl> I'm logging off for the moment to save money. Porhaps I'll check again in one hour or so.
- .J W Krych> no
- .) W Krych? take care Karlilli Auf Wiedersehen!
- . JeffW> See you later, Karl.
- JERRYC> I'll post a log Karl.
- .uano> JIm maybe a pal that would sit between the system and a NEW data pump that would interpret the commands to the 9902 and turn them into signals the new data pumps would like.
- .Karl> Byo ove**nybody.**
- .karl> signed off -

graphical environment.

- .J W Krych> | that will be interesting!
- Alexander> This can be handled using windows or similar. BUT one window has a frame, using up screen space. The only reason for such a frame could be the use of other windows. This would mean other processes, but I guess the TI is too small for a multi-tesking environment. (I may be spoiled a bit by using large systems at university. However, I always found, taht it was better to run just a few jobs, and to avoid multitasking whenever possible, due to the fact, that two jobs will run much ffaster, if started one AFTER the other).
- .J W Krych> Herr Hulpke, has Chris Bobbitt talked to you about work on the AMS/AEMS cards for bigger programms?
- .Alexander> I got a letter from Chris, in which he sent me some informations about the AMS card. However, I think, Icannot start programming for this device, due to the fact, that I am using a Geneve. So I will only write programs, that use the larger memory by standardized calls (which willalso work on the Geneve). Chris did not tall me much about other projectsfor this card, but I heared somewhere, that Al Beards c-compiler should be adapted. This would mean a whole world of software adaptable. ga
- .J W Krych> yes it is -- (the loader and assembler are finished. Linker soon to be.)
- .JeffW> c: I had heard A! planned to port TIC to 4A Memex.
 Mayte he has plans for AMS as well.
- Dano) What is the state of the TI community in Germany? Any new hardware software projects going on?
- .Alexander> Due to work for my diploma thesis, I had not too much contact to other users in the last few months. I have seen several really neat hardware projects (digitizer, Color Look Up table for the 9938 I remember by now), which were however in a staate not ready for any release (and I guess, they were simply some hobby project, not ment for any distribution). Since I tend to write (and to interest) most likely for programs and projects I can use. I did not inform me about these too much. There are several software projects (e.g. (still unother) fractal generator), but I am most probably not up-to date.
- (karl) The community in Germany is deminishing, I think.
- Alexander/ There are lots of programs to be presented at meetings (I even saw a Exbasic compiler), but

- also, lots of the end in the nowhere. YEs, the community is diminishin. Due to the fact, that computer networks are much mor uncommon here the do not have much like Delphi here? the community is also connected much looser. ga
- .Dano> Karl or filex, do you think there is any chance that TI's will find new homes amongst the poorer east curopean countries? Naybe even a rebirth of interest amongst new, second or third generation users?
- .Alexander> ?
- .Dano> c: there are consoles we could send over (pretty cheap) but they would reed to be modified for the PAI standard (assuming) that all east europeans upe fol...
- .JeffW> Mlexander, since you are our featured guest, you can ask your questions of us at any time.
- .Alexander> I understand your suggestion. I think a large problem will be, that the TI is not the only computer, abandoned by its manufacturer, and thus by lots of other people). Even 266 AT's are today "old stuff". I suppose, users across the former iron curtain will also get those systems, and I would guess, they decide similar to the users, that bought the computers some years ago (means: Some will use the TI, but lots of them will start with re-used FC's, C64, perhaps even some old amigas or Ateria.
- .karl>) I'm pessimistic about the chance to(_ increase the community by adopting eastern people, Old PCs are more interesting for them I guess.
- .Dano> | Can't dance if you don't ask....
- .Joa> Sorry I couldn't get in marlier. Just want to comment on comothing I'd like to see added to VAPP... I'd like to have the ability to abort a load of a GIF picture without having to wait until it all loads. Would also like to be able to use Keys to decrement the colors (rrgb) when adjusting the palette. Other than that, VAPP is a great program. Oh yeah, ... I'd also like to see the ability to save/load color clipart, ga
- .Alexander> LEt's try it! I thought about breaking the GIF load (you are not the first to ask for it. However, the keyboard routine is awfully slow (and I cannot use direct (RU read, since !MPP must also run on the Geneve). Thus I simply left it out. I would be no problem to add a keyboard loop (perhaps I should add it, to be scanned every LINE or two lines). Decrement keys are no problem at all. They are simply left out, since they were not ir Myart (did not think about the need for it), ard since I had no idea, which keys to use. Including them

really simply is a matter of adding another two or three lines of assembly.

Saving clipart is not yet possible very elegant, but you might try it this way! clip your picture (using C I think), clear the screen in black, put the clip (with D) on it. then save. for loading, load this picture, re-c lip the clipart, load the picture, into which the picture should be inserted, and put int there using D. I guess, the future versions will support some neater way for doing so. Currently, I am thinking about adding (if we have enough memory) another second or third screen, between one could switch. so clipart would be loaded on the second screen, clipped there and then (after switching back) put into the picture. Oh yes! I should add: Always use color number 0 for the background of clipart. Thus you can put them using the TIMP logic, wich will result in a really "cut" picture, and not only a rectangle.

JeffW> c: Decrement Keys in Myart are undocumented. E for Red, F for Green, and V for Blue, I recall.

.Joe> Correct, Jeff.

.Alexander> Oh, I did not know about it. This will be implemented! ga

.JeffW> Alexander, notice that each is the key to the left of the R. G. or B Keys.

.Joe> It would be neat if you could also input a number 0-7 for RGB values. if desired.

Alexander> Will be put to the wish list (this also is no big deal to implement).

.Joe> Thanks, Alexander.

.JeffW> Alexander, I sent you text of the NCTIS proposals as a partial response to your "need for more memory" article. Any comments?

.Alexander> Ves, I'd like to comment on some things: I don't think, we should prescribe any special kind of hardware to get things done: I would suggest levels, depending on the possiblities. this means": More memory (not depending on the fact, if you are using one of the new cards, a geneve, or even swapping to harddisk). Another level should be GRAM, another 9938 capabilities. It is not so important to obtain a full list of all capabilities (we are not talking about a classification of all possible II systems), but to set standards, on how to acess several things (at least memory is very urgent), this should be done using routines, that will run on every system, e.g. DSR calls.

For example larger disks (I read the discussion comp.sys.ti) are a neat thing, but I don't think the software will change mucg, only because one can use even DD drives. This will result in some disk-jockey work for the user, but not for the software.ga

.Dano> c: The closest thing I have seen to such a system is the way gary Bowser handled memory useage on the beta version of digiport.

,Dano> c: Garys RAMOS locks like it is getting close to the universal dar call idea.

.Alexander> c= I don't know about RAMOS. If it is possible, to add its capabilities to the geneve, I think it should be used as a starting point.

JERRYC> of RAMOS was discussed in the OPA CO and again in Joe Delekto's -- both in the NEW library.

.J W Krych> Since the fundemental differences of NEMS/AMS and MaMemex are the access of memory, is it not better to isolate the programmer from the paging? Like in the AMS/AEMS assembler linker. loader?

.Alexander> Yes, I think, the programmer should not do any "hard paging". The call should be: Put memory block number xxx at address yyyy (which should be 8k offset).

.u W Krych? } a page size is very moot with the developmental system!!!

.Alexander> Then the DSR will do, what the device is capable of: Banking, but even (for RAMdisks) only copying memory. This may be a bit slower, but at least the progrtam will run on most cyctems.

.Hlexander> Lī Sorry, don't Know the word "moot", and forgot my dictionary.

. J W Krych> moot meaning not really important

JERRYC> it means "not worth arguing".

.Jef(W) A "moot point" is a point which can be argued either way.

.Kar.> | "moot" = "srittig"

.Alexander Ah, yes, I sees. I don't know, what the AMS programs will do, but if the memory is not at an offset, you cannot bank, but must copy (which is always slower than banking). I'm talking from the point of view of the geneve, that uses 8k blocks for banking (and of course, I want the standard to be optimal for my geneve...)). ga

.ប យ Krych>) NMS/NEMS uses memory mapping simmilar to the

- 99/8 and GENEVE -- no DSR needed at all
- Alexander> I: Yes, similar to the geneve, but the programm should not issue any CRU command for bank suitching, but call the standard DSR routine. Same goes for the geneves memory-mapped pager.
- .J W Krych> | I would have Joe Delekto argue that [8k]
 point with you Alexander -- and Tony Lewis too
- JERRYC> But NOT here gentiemen.
- .j W Krych> yes, sorry
- JERRYC> o: 2K and 4K may have advantages for smaller memory scace.
- Alexander> 2k have some advantages. However, you will need more memory, if you have lots of data, so I think even 8k could be workable.
- J W Krych> | AMS/AEMS uses 4k with a 24k window for ams and 32k for AEMS
- JERRYC> c: I think your point about 9640 (and 99'4a) functionality is the key
- .Dano> Alexander, other than XHI and Vapp are than other programs that you have done, that perhaps we do not know so much about?
- .Alexander> Of course, I have written lots of programs (among them the BEST TI-Basic programs, which I wrote the weeks, after I got my TI 1-)), but most of them did not leave my disk box, since I did not want to write any documentation.
- .Dano> c: I need to steal yours and barry boones disk box!
- J W Krych> haha
- Alexander> But honestly: there are several small utilities (converting p-system to TI and vice versa, function keys on the geneve, fixing a geneve bug with upcase keys) not worth mentioning. Of the "large" programs, there are X80 (for 80 column text mode), Tetris (which I urote, since there was no such program for the TI, and I wanted to havi it) and (not much work by me, but usable) a TI port of Soko ban.ga
- .J W Krych> Herr Huplka. what is soko ban?
- .Alexander> This is a game (probably you know it) in which you have to move some boxes to designated positions. The problem is, that there is not much space, and you have to push, so you will most probably build a wall into your own way.
- MERRYC> I have to go soon one comment and a question.

- .J W Krych> ! I need to go. I enjoyed conversing with you all. and in GERMAN! Take care and Godd Bless Yaw!
- JERRYC> There is some discussion of memory systems in several CO transcripts you can download on the COGUEST acct (ascii)...
- JERR/C> and my Internet ? 1 JERR/C> Do you use the UUencode ultility and how does it differ from Clint Pulleys encode program?
- .Alexander) No I did not yet use it (on th II). I wrote a small program for this purpose, but nost time I decode files on the Unix system and put them on a disk.
- JERRIC> OK thanks
- .JeffW> filexander, would you like to join us again next Saturday morning?
- JERRYC> I have to go my daughter is DYING to use the phone it has been great!
- .filexander) I'd like, but unfortunatly, next week end I'm not in Aachen, but in Wuppertal at my parents.

 So this is impossible. Sorry!
- .JeffW> Okay. Maybe we can try again at a later date.
- .filekander) Of course. .filekander) Danke Karli
- .JeffW> If you can stay a bit longer, Alexander, I will try to clear up some confusing points.
- Alexander) I can stay for about 45 minutes.
- JoffW> Jim Krych is head of Fsgard's AMS/REMS memory card project.
- .Alexander) I guessed that after your comments .Alexander) Auf Wiedersehn!
- JeffW> Don O'Neil with assistance from me designed the 4A Menex.
- . Karli bye everybody I
 - .JeffW> Bye. Karl.
 JeffW> IMS/NEMS page memory in 4K pages. 4A Memex uses 8K pages in its RAMBO compatible mode. There is no plan for a DSR for AMS/AEMS. Programs that use AMS/AEMS memory will require a special assembler/linker package or direct access at the hardware level. The 4A Memex will have a DSR to provide memory management. When you said that memory should be used via standard DSR calls, that caused Jim Krych to start telling features of AMS/AEMS.

Alexander OK, AMS is his "child". I mentioned DSR acess also in my letter to Charles Good and thought (from what I know about AMS), that it also would have a DSR. It_should not be too expensive to add an Eprom.

.JeffW> Would you like me to send you previous conference transcripts so that you can see what developments are being made in the II community?

Alexander> That would be very nice. Especially the transcrips of the conferences concerning AMS and other memory issues.

.JeffW> Chris Bobbitt and Don D'Neil got into some lengthy arguments over AMS and 4A Memex. These transcripts can get quite long. Should I archive them and TED them and mail them to your Internet address?

Rlexander> I think, we should not argue about the best way, but design a way, that will run on all systems. We must also face the fact, that most programmers (at least I guess so) have a Seneve. For compatibility reasons, a DSR is the only solution

[ED NOTE: the DSR/compatibility issue was resolved by Gary Bouser in the Joe Delekto CO when neither Jeff nor Alex were present -- see that transcript]

.JeffW> I will try to get permission to post them to comp.sys.fi.

.Alexander> If possible, the best way will be to send them as Unix compressed_UUencoded_mail to my internet adress. Sometimes I got problems with TIED files.

. JeffW> The problem is I cannot UVencode them. .JeffW> Does your account have lots of free memory?

.Alexander> I do not care about it, but I don't Know, if anyone will charge you money for sending LARGE

ascii files. receiving is no problem for me.
Alexander> What do you mean by lots? I guess I can use up some more 5MB, but 20MB could cause problems.

.JeffW> I can send the files without being charged money. JeffW> 5MB? I only get 750KB! .JeffW> Transcripts are normally around 50KB as plain text.

.Alexander> Well, I do not have a upper bound set, but on the disk (660MB) are also some other users. At some point the disk is full, and we have to arrange how to deal about space. (I should add, that we are using sometimes LARGE a mounts of

data* A friend of mine even suggested adding a 16B disk for short storage of large amounts of data, i.e. 100000x100000 matrices, representing groups).

.Alexander> 50kB is NO problem at all (even 10 times 50kB),

.JeffU> The transcripts are propably less than 20 pages each. You could print them out and delete the files.

.Alexander> Thats fine.

.Jeff#> Do you have any questions about Delphi or anything that was discussed today?

.Alexander> At the moment not. I think, I will write down some afterthoughts and send them to you for posting.

.Jeffu> Than<s for joining us, Alexander. Was the conference what you expected?

.Alexander> √Es, It was great (except for the buggy line in the beginning).

.Joffu> There are other ways to connect to Delphi via Internet.

.JeffW> You can Telnet to Kuhub.cc.uKans.edu. and at username type RELAY.

Alexander> I don't think, this would have helped, since any acess to US computers (at least I tried some other to check, where the error was) was impossible during this time.

.JeffW> An option on the menu will be "delphi". Just type
"delphi" and you are connected to Delphi just as if
you had used delphi.com.
-JeffW> This is how you would connect to the Kansas City

Delphi node rather than to Boston Delphi node.

JeffW> Back gain, Bill.

DUNNELLS> SORRY got bumped off

JeffW> Kagain>

· UUNNELLS> many times today

.JaffW> That happers, Bill.

DUNNELLS> call waiting

-Jeffu> Disable it.

DUNNELLS> 1 did DUNNELLS> 2

JeffW> filexander, would you like to see anyone in conference next time we schedule you? Maybe I could round up Chris Bobbitt and Don O'Neil to describe

their menory systems.

with the ones designing the several memory expansions, but this will be done better by mail.

ELLS> Do you know if a Tendy CM5 RGB monitor will work on a 9640

MaffW> I don't know, Eill. Maybe Alexander does.

ED NOTE: The CM5 is an analog RGB monitor (not CGA) used m the COCOJ

Alexander> Just can guess (Tandy is not wary common here):
Ask the dealer, if an Amiga (500 or 1000) will
connect. The 9640 has standard RGB output with
TV frequencies. Thus a VGA monitar most probably will not work.

JeffW> Alexander. I use a multisync SuperVGA monitor on my Geneve. 800x600 pixels.

Alexander> Yes multisync WILL work, but there are alos pure VGA monitors. I use a clone of the "old" model, that was used e.g. on the amiga (in fact it is a philips product). You need to have separate connectors for analog R, G, B and Sync.

)UNNELLS> Does it have a low scan rate 15khz

Jeffli> Alexander, are there any other persons in Germany that have Internet access that might like to be Delphi quests?

.JeffW> Bill, are you asking me about my monitor, or Alexander about his?

DUNNELLS> uours

.Rlexander> I think, there are some of them (though you might not have heared much of them). I will look up their adresses and mail them to you.

JeffW> I am looking for any who might have written software or designed hardware for the 99/48 or Geneve. Alexander. Thanks for any help.

| Geneve. Alexander. Thanks for any help.
| Geneve. Alexander. Thanks for any help.
| Geneve. Alexander. Thanks for any help.
| Geneve. Alexander. Thanks for any help.
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| Geneve. Alexander. Thanks for any help.
| Geneve. Alexander. Thanks for any help.
| Geneve. Geneve. Thanks for any help.
| Geneve. Geneve. Thanks for any help.
| Geneve. Gen I think.

DENNELLS> So if the CMS is compatiable with the Amiga 500 then it will work on the 9640?

leffW> It should, Bill. leffW> Is the CMS price very good?

lexander> If you can connect the RGB output of the Amiga 500 (at least of the model sold here in germany) to the monitor, you should be able to

DUNNELLS> 49.95

.JeffW> That is vary good if it will work.

DUNNELLS> But I must change the viedo plug

.JeffW> Is it new or used?

DUNNELLS> new display model

.JeffW> Have you seen a user manual?

DUNNELLS> no manual avail.

.JeffW> If you buy it, try it, and it does not work, can you get your money back?

connect the 9640 the same way.

DUNNELLS> only if I don't change the plug|
DUNNELLS> a computer repair shop will change the plug for

.Alexander> You might try to solder an adapter, so you will not cut the cable of the monitor to change the plug.

JeffW> Alexander, I will send the transcripts to you as plain text to ahulpke@bert.math.rw-aachen.de.

.Alexander> Thats fine. I think I will leave now. MAny thanks for a fine evening.

.JeffW> Thank you, Alexander. I'll try to schedule you again sometime in the future if you would like that.

DUNNELLS> I've enjoyed itll!

.Alexander> We should consider that via eMail .Alexander > Goodbye

.JeffW> Goodnight, Alexander. Have a safe trip home.

end at 13:42:49



A husband was distraught when he caught his wife in bed with another man. In desperation, he sought advice from his rabbi, who counseled forgiveness. "After all," the cleric said. "a mar cannot be held responsible for his actions Bt that, the funious man Kicked the rabbi in the shin.



LIMA MUG REVIEW

BY DAN GAZSY

LIMA 93

Why Go?

Each year (for the past three years), I have made it a spint to travel out to LIMA, DH to attend the MUS conference. Some may ask, why travel 656+ miles (one way) to attend an all TI show. If you happen to look at the attendance roster, you'll soon discover that there are others who travel even further. My reasons for going are as follows:

- a) see the latest products available for the TI community
- b) communicate with vendors and TI99/4a owners regarding where the current trends are taking us. what software will be written, what needs to be written, etc.
- c) buy some of the products that strike my fancy

d) renew my interest in the TI99/4a

How to Prepare

Now that I've explained why I go, let's get on with the seview. This year, I attended the show with a pencil and seper to go along with my folding money. In past years, I had come back with a hand full of goodles and good intentions on writing a review of the show. When it came time to write the article, my mind tended to become fuzzy and datails and lots of things I heard or saw were not releyed in the review. While this review will be far from all encompassing, it will be far more complete, than any other review I have written.

There are three things I've learned to do as soon as I make there. First, sign the log sheet and slap on a name tag. Since there's no paid admissions for the show, the intensity that the sheet. The name tags are a convenience for you and the sheet. The name tags are a convenience for you and the sheet. The name tags are a convenience for you and whom I have conversations. The next thing you'll want to do is pick up a schedule of events. On this schedule is the spick up a schedule of events. On this schedule is the spick up a schedule of events. On this schedule is the spick up a schedule of events. On this schedule is the spick up a schedule of events. On this schedule is the seriousts simultaneously in two different rooms. The last products simultaneously in two different rooms. The last instances where two vendors were presenting the seminars. This is your insurance against missing out in that seminar you wanted to see. The asking price of \$15 or \$9.75 and 3 UHS tapes) is more than fair. Now all that's left, is to schedule your time between the vendor

table displays and the seminars.

Who was there

This section is far from the definitive statement of what vendors were there, but more like which vendors I spent time or recognized as being in attendance. As in years past, Bud Mills Services, Western Horizon Technologies and OPA were present offering their latest hardware innovations. For those looking for drives, cables, etc. you had your choice between Dave Connery, L.L. Conner, Cecure Electronics, Mudd & Co. Competition Computers and Ramcharge Electronics?. The software vendors in attendance were: Asgard, Bruce Harrison, Iim Bodenmiller, Notung Software, MiS Software & Media Ware Software. From the user group community I know the following groups were in attendance: Northcoast 99er's, II Chips, C.O.N.N.I., Lina UG, and MUNCH (Massachusetts). Before I end this paragraph, lat me say that I APOLOGIZE for any cendor or group I may have left off this list.

what caught my eye

ft the Jendor area, I picked up a pair of 3.5" Toshiba 1.44ab drives for \$50 a piece from Dave Connery. While my Myarc 80 track FDC will only take advantage of 723kb; the price was the best at the show. I spent some time talking with Don Walden concerning the repair of my HFDC. Since I don't fashion myself as an electronics wizard, I opted to make arrangements to send the card to him to repair. Cacura Electronics were also selling 3.5° drives at \$55. As in years past, most any table had P-Boxes and complete systems available. I even saw a HFDC for sale at one Ub table. In 92. I went to the LIMA show in search of an HFDC and couldn't find one. I saw some really nice labels produced by a product called Graphics Grabber from Media Ware Söftware. The current version only produces black and white labels, but the version under development puts out some really nice color labels. For those of us who have IBM clones at home. I spent some time watching Mike Wright's PC99 software simulation product run on his 50MH 486 machine. His demo consisted of modifying a MAKE file (commenting and uncommenting lines) before linking and executing a program simulation. While at his table, I saw Tombatone and Parsec demoed. Each year I make some software purchases for my kids and myself. The two games I brought home this year were II-Casino and II-PEI. So far it's been a struggle to pry the Kids off the computer for meals.

Seminars In Raview

At the conference, I managed to find time to attend three of the seminars. Two of them were hardware oriented (Don O'Neil and Bud Mills) and the other fit more into the category of miscellaneous (Jack Sughrue). I have seen many of Mr Sughrue's articles in newsletters and decided to see how he uses the computer in an educational environment. With two children in the New Jersey school system, I was currous to see what type of software Jack uses in his third grade class. Most, if not all the software Jack uses, is

ten in either Extended Basic or Basic. To make the subare "user friendly" for his students, Jack uses the Boot program. This takes alot of the guess work out of to execute the educational software. Most of it is aloues just moving the menu bar to the program of choice and pressing the ENIER Key. While Jack has written some of the software, he spent quite a bit of time demonstrating a stake collection entitled "Tony Falco's Classics". Most of the collection entitled "Tony Falco's Classics". Most of the I saw was very professionally done and riveled the successional modules that II produced. It tended to avoid the shooten up type of stuff that some vendors used to feel see necessary and dealt more with teaching the child. The attematics drills were especially well done and didn't get into cutesy-type name calling if the child got the answer arong. In one of the drills, it would display both the solution of the child and the computer. Since all the work they went brong.

Last year, Don O'Neil introduced some projects/products and this year was more of an update on past projects and a sw new products. The Digi-Port device that was introduced est year is still available and version 2.0 of the coftware is still in the works. Last year at show, version .0 of the digi port software was available and they were working on an upgrade. This past year, the SCSI card was seing sold at the Chicago show and the DSR for the card would be shipped as soon as it was available. It's still not available, but I believe that much of the work done by lill McGovern (FunelWeb fame), has escalated the completion tate. McGovern is responsible for writing much of the low writing the DSR for the device. Jeff White is responsible or writing the DSR for the device and it's estimated that the DSR is approximately 60% complete. Don O'Neil has a commitment from Mike MeKsimik to write the "backup" coftware for the device. The 4a/MEMEX's fate has had some if "Murphy's lawe" applied to it. The original design of the the card went back into a redesign phase because the tynamic ram chip was discontinued by the chip manufacturer. I've the card went back into a redesign phase because the synamic ram chip was discontinued by the chip manufacturer. I've the card went back into a redesign phase because the synamic ram chip was discontinued by the chip manufacturer. I've the card went back into a redesign phase because the synamic ram chip was discontinued by the chip manufacturer. I've the state the next three years. The pricing on the 4a/MEMEX with one was the simulation of the state o

Two new products were also announced by Don O'Neil salled Turbo Video and a 99/42 Rom upgrade for the AVPC. The turbo video product is a Geneve product that will appraise the speed of the Geneve by 15-20%. The ROM upgrade of the AVPC fixes the interrupt problems and RS232

The last seminar I stayed to watch was Bud Mills. Some what he showed/talked about, covered WHT products that when developed jointly. The Horizon 4000 has many of the satures/wiring mods that were thought of after the initial 1000 series boards were developed. The Phoenix modification and the RAMBO mod are switch selectable on the new card. The PGRAM card is still available in Kit form or fully assembled. From what I deciphered about the product, it appears to be much like a Grankracker or Granulator type sevice. When the topic of the SCSI device came up, it was secribed as being capable of supporting hard-drives or

floppy drives that are either SCSI-I or SCSI-II compatiable. The card will be packaged with a disk manager called UNImanager by Mike Maks mik. Backup software will be available from Maksimik but as a separate product. CD ROM devices can be supported but they require a browser utility issparate product) to work. A digital scanner is also doable, but would require separate software to support it. Much of what was discussed/promised at this show is dependent on the spare time of the parties involved. Since most of the vendors still supporting the II product line can not make a living just selling to the II community, it usually requires them to have day jobs. Please keep this in mind when you are considering the purchase or repair of a product.

Editor's Forum *a*

"To BUI or not to GUI, that is the question". Much has been made about GUI type interfaces for programs. Operating systems and alike; but my jury is still out on this one.

Being forced to use a PC clone at my day job. many of the newer products I see ara windows products. Old MSDDS products are being upgraded to make them windows compatiable. After seeing a number of these applications, it quickly becomes apparent that NOI to a bull interface. Those that are, may not be Structured as intuitively as you would have hoped. I've not ced that many wides games lend themselves werl to a simple GUI/mouse interface. This is probably nue to the fact that most ganis laquire **few** Thus hower (it any) to william lish any turn Comacicy, Most game

Playing can be casily.

we complished by moving the Magas and alicking. To

activate functions, simply click the mouse on the appropriate icon. If a drop down menu is necessary, simply place the mouse on the menu bar and click. Much of what I ve just said, sounds alot like the dialog you here from those who favor windows. However, not everything is intuitive and easy to use. After you struggle with a few windows products, you quickly vary your opinion on the subject.

subject.
If you should find a
TI994/a application that would benefit from a GUI. the next question you need to ask is "Can the 99/4a support a GUI interface and the application?" The answer to the question depends on the graphics mode you choose, the number of icons the application needs and the amount of RAM mamory needed for storage. The amount of video memoru needed by the application varies depending on the graphics mode chosen. For example, if bitmap mode is used in an application: there is little or no video memory available for anything else. In fact, it becomes necessary to temporarily store some video memory in regular RAM if file i/o is performed. A GUI is nothing without a mouse, so be prepared to reserve space for a mouse driver. Before you know it.

Ve run out of memory cources before you've itten many a line of

Mon't get discouraged and say "the heck with it", there are two resources to consider. If you are going the use a hi-res application, consider using some of the video memory in the 80 column davice for temporary storage. The 80 column card has a minimum of 128k (most have 192k) and the hi-res modes (65/67) will never require more than 64k for the plewing screen. The other alternative is to make use of the AMS/AEMS memory card from Asgard. Within a few morths, WHT should also have the 4a/MEMEX available.

The last word I have on this subject is that a 39/4a product exists that has a GUI. It's called Page Fro Page Composer from Isgard Software. Hopefully, in the next few months here will be others.

COMMENTS & SUGGESTIONS

DETACH THIS PAGE FROM THE NEWSLETTER AND SUBMIT IT TO THE EDITOR AT THE NEXT CLUB MEETING YOU ATTEND OR MAIL IT TO: NEWJUG 99ER'S USER GROUP P.O. BOX 1463 STYREVILLE, NEW JERSEY 08871-1463