# KOCRTY Reppont <br> LOUISVILLE USERS of COMMODORE of KENTUCKY. INC <br>  <br> P.O. Box 9531 <br> Lauiswille, KY 40209-0551 <br>  

OCTOBER
1906

# Disk Of The month 

L.U.C.K.Y D.O.K. \#F235

October 1996

SIDE ONE - 128 Prograns
Program One, Read Me-Information about this disk.
Program Two, Auto Menu-List menu of programs on this side of disk.
Program Three, Disk Info. -extended information about this disk.
Program Four, 128show/5.sfx-a picture show with its own program to run it.
Program Five, 128show/6. $5 f x$-a picture show with its own program to run it.
Program Six, Multiterm128 $2.0,1,2,3$, phone modem program.
Program Seven, Rad Labels will print labels.
Program Eight, 80 col. cable- info on making your own cable up.
Program Nine, Copy All 128-copy program using two drives.
Program Ten, Gamecat 128 V1/Gamecat 128 Boot. a file maintenance program.

## SIDE THO - C64 Prograns

Program One, Read-information about this disk.
prográn Tuj Disk menu-directory of programs on this side of disk.
Frogididite, Oxxoniam+10, arcade type imported game.
Frofin Fcur Vyrus/NeI, arcade type imported game.
irdinimed, Stuntexperts/hisd, arcade type imported game.
Proprom $S^{3} x$, Terry' $s^{++/ m b d, ~ a n o t h e r ~ a r c a d e ~ t y p e ~ i m p o r t e d ~ g a m e . ~}$




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GENERAL MRETIMGS are held the aecond Tueeday of every month the Beechmont Community Center, $6: 30-9: \infty$ PM. Demonstrations are given on both hardware and softivare at these functions, with cocesional evest apeakerss and recular question and answar measion. Also avallable to Members Only are Public Domain Procram Diskes from the Club's Library for a emall copying fee.
BOARD MEETINGS are held at the Central Jefferson County Govermment Center, 7210 Outer 100p, from 7:00-9: $\infty$ PH, the Wednesday of the week following the General Meeting.
MEIBERSHIP is $\$ 20.00$ year, per family. which includes eccoess to the LUCKY BBS, Library, Monthly Nevsletter, and epecial drawings.
The LUCKY Repropi (newsletter) is publintied monthly and is available at the Genaral Meetine. DEADLINE for aubmisesions to the REPORT is two weeks prior to the General Heetine. It is "manufectured" on $3 \mathrm{c}=188 \mathrm{~s}$. various 15xx crives, Pocket Writer II 188, Fontiiaster II 128, and printed on Panasonic. Star, and C. Itoh 8610 printers. The LUCKY BBS is operated 24 hour . day and is desiened with Commodore Users in mind. Special ecoess is erranted to LUCKY members, but all cellers are welcome. The phone number is: $502 / 830-6307$.
Participation and input is apprecisted by -11 Henbere.



To avoid confusion, please direct all questions to the Libcery Aesi rentes at the other end of the table. FIFAF Do Not BDIfIR TFE COMPIED DFidatiRe\& This will mininize mistakes on backups being made. Thank you.

To order diskettes, fill in the order fores provided by the Librery Assistents. Make sure you PRINT clearly the Information requested on the form. This will speed up the filling of orders.

## Notes from the Red Room:

By: Dan Koleski (club president)
Fellow L.U.C.K.Y. members:
Another month hes sped by and those colder months keep getting closer. If you're like ae, you're scurrying around trying to get projecta conpleted before it gets too cold to get outside. The only good thing about the cooler weather is that I eet more conputer time in. The nicer weather brought people out and we counted thirty-one people at the September aeeting. Alnost had to haul out extra chairs. I' proud of you, but, I know we can do better. There were atill a lot of faces missing.

We received the 10 copies of Nick Rossi's Novatern 8.6. Dale had already purchased a copy so we have 9 copies left. We need to sell every one of these copies, so get the while they're still available. Maybe we cen get Dale to give us a demo on this progras in the near future. Dale and Roger showed off their 20 meg CPU units and from what little I sew, they looked pretty nice. I believe they may bring them beck in tonight for continued deno. We took in enough to raffle off the 1581 drive and the lucky winner was none other then Steve Grassaan. Congratulations Steve. I believe we are going to have a C64 systea for our next raffle if I can remenber to get it out and ready to go. This should consist of a C64, 1541 drive and some printer. The attendance raffle of 10 was not claimed so this month it will be $\$ 15$. Maybe someone will be present and clain the money.

When I was putting the newsletters together last month to mail out, I did survey to see where they went. So, for your viewing pleasure. here are my results. We mailed out 48 newsletters with 34 of them going to sone other club in the United States. Two others went to foreign country and the rensining 12 went to memers who were not present. Renember, if you want to be on the mailing list so that you can receive the newsletters when you can't make the meetings, let me know so that I can put the inforastion in the data base.

We took a vote of sorts on whether or not to have a paper airplane contest agein next year. I sugeest we have one in the Spring and to heve it in conjunction with a club picnic. So, this is what we will be attempting to do sonetiae next year. The reasinder of the details will have to be worked out then.

Since I writing this few weeks before the meeting, I cannot tall you about the Conputer Festival at the fairgrounds. I hope it will be success, but only time will tell. Several menbers agreed to man our booth, so who knows, maybe we can pick-up some new menbers..

Tise to close this up and get into something else. Ta Ta

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Ah! at last the weather is getting to be just my style. What else is new on and around the Lucky BBS?

Well for starters, there is good news. The usership on the board $i s$ up pretty well. In fact it's so good that I've almost had to bump people off 50 I could even do maintenance. That's what I like. Busy, busy, busy.

There have been a series of crashes on the BBS for no good reason. One caused the date to be set back several months and the pointers files to become corrupted. I think this one happened right after the game was reset. I had to start the whole thing over the next day again. For those who don't have any idea what I'm rambling about, the pointers file is a file in which the system keeps information about who did what and when, account information and all sorts of critical information about what $C$-net needs to keep things operating smoothly. If this file gets out of order then things like information about when you last logged on and whether or not you read posts and mail, etc, gets messed up and you get all kinds of weird things happening. In any case I had to reset the pointers file and sort all of the ssers and rebuild the user database. While $I$ was at it $I$ took a half an hour to shut the whole thing down and let it take a short break. You have to remember that the board runs continually 24 hours a day 365 days a year. Come to think of it, I guess the thing hasn't been off for a total of probably an hour or two in 8 years. I guess that's a pretty good reliability record for any computer, isn'tit.

On a personal note, my life has undergone some major changes, I have mostly retired from the remodeling business and have gone full time into the computer business. (that's one reason there was no "Bored Room" last month). Its been a challenge but things are beginning to settle in now.

It's hard to teach an old dog like me new tricks but it can be done.

Dave Sinden, Sysop
.5

## Factoids:

Here are few hints and tips on using C-net (Lucky BBS)
1.. You can combine several commands and use the Up arrow key next to the restore key as a return. Like, so B3^r5 would go from the main menu to Bulletins section 3 and read message number 5. B1^RA would go to section one and read all new messages.

There is a little used section containing text files of interest to read or buffer and save. Hit $G$ from the main menu. Got a good file to put into the $G$ files? Upload it to the text files section and leave mail for the sysop letting me know that you want it in the G-files section.

You can change information about yourself (your user profile) by hitting the $Z$ key from the main menu. Select a number and you can update info like your phone number and birthdate, address etc.
? is a great little secret. Or you would think so. At any prompt the Question mark will get you an explanation of the available commands at that point in the program.

You can change your password any time you like by typing PW at the main menu and entering your OLD password and then entering a new one. Not a bad idea from time to time. Just be sure to keep track of the new one and don't give it out to others.

In the Bulletins section and the UD sections the < and > keys will move you from one section to another with the, going to the next higher section and the < going down through the list.

## FROM THE ROOM DOWN UNDER <br> MAGIC TIPS. TWO

Only if I haven't totally confused you on the first Magic article, let ac try again.
Typing tip, A fast way to Poke a zero in Direct mode is by typing POKExxxx, then rolling your finger off the comma key on to the period, then pressing the return key.
The computer interprets the period as a zero, and you've saved a few thousand microseconds of finger fumbling.
Disk disaster prevention..... If there is an asterisk to the right of a filename on your disk directory, that file is corrupt and should be removed form the disk. But don't scratch it, or you may be courting disaster.
Instead, do a disk validation, which will remove the corrupt file. If you're using the wedge program, $Q V$ will validate your disk.
Now let's do a debugging hint. If you have a program that contains a lot of Data gtatements and you are reading from these and Poking to other locations, neglecting a coma can mean an Illegal Quantity error.
Instead of searching through these statements to find the incorrect one, you may use the data line number locations to locate the bad line. Simply type:
PRINT PEEK (64) *256+PEEK(63)
The computer will respond with the line number of the illegal Data statement. This is much easier than searching through all the data.
Joystick substitute - If you have a C64 but no joysticks, you can simulate joystick operation from the keyboard. It's not the most convenient thing in the world, but it does work.

PORT ONE
Fire-space bar Up-1 key
Down-left arrow
Left-CTRL
Right-2 key

PORT TWO
space plus M key space plus f1 space plus 2 key space plus C key space plus B key

Here is a good reason not to scratch a file (s) on a disk then copy to it.
I typed a program and I saved it to my disk, then loaded and ran the program. It loaded and ran fine. Later on I transferred a file to this same disk. Now I have two different files on this disk. Keeping in mind that I have scratched several files before hand. After awhile, when I went back to load the first program, I got the second instead. WHY you ask?
This problem often arises when a disk has been used for a while, contains some programs, and at least one program has been scratched. Then another program is saved, but something happens and the save doesn't work. The read error light flashes and you know you have a problen.
Your files have become crosslinked. The only sure cure is to copy the entire disk to a freshly formatted disk, copying one file at a time, rather than using a disk back up program.
The most probable cause is that at some previous time you scratched (erased) an improperly saved program or file (one whose name appeared in the directory with an asterisk next to its filetype, but could not be loaded). For future reference, the proper way to get rid of such improperly saved files is with the disk Validate command (know as the Collect command).
FROM THE ROOM DOWN UNDER.
Larry J. Eailey


My Commodore reminds me of Tombstone, Arizons, in the days of Wyatt Earp; It's just too tough to die! CBM tried to kill it four or five times, but high demand always forced them to put it back into production, until the day they mismanaged to kill themselves.

Meanwhile, we have seen 16 -bit and 32-bit computers come and go in popularity. Now the Pentium chip is all the rage, allowing 64-bit addressing at 100 megahertz, while our beloved 8 -bitter still strolls along at 1 or 2 megahertz (uniess you are the lucky owner of a SuperCPU)! In spite of all this, Commodore enthusiasts are still hanging tough! Or are they?

Let's be honest! Our ranks seem thinner than they were. Many Commodore groups that were active five years ago are now history. Companies which sold our products for years no longer supply us. Repair parts sre becoming more and more difficult to locate. Are you wondering how we will continue when the parts disappear forever?

CMD has just finished the SuperCPU for the 64. Yet, at the moment of our greatest triumph, we seem to be uncomfortably "on edge." I am increasingly concemed about the gloom and doom creeping into our Comm-adoring community. Yet, the signs are unmistakeable.

In the last issue ["15] of Commodore World, CMD was feeling the heal. The issue was late and Charlie Christianson, CMD's co-founder, sought to reassure subscribers by directly addressing their concerns.

You've probably even begun thinking of worst case scenarios. Is it that they are
going 10 stiff me like so many previous Commodore magazines have? Is it that they just don't care? Are they getting out of the Commodore market?...We] can truthfully answer NO to all of fthese questions]/"

Commodore users seem to fall into two groups-those who love the Commodore as CBM left it. and those who probably would have left it if not for CMD.

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- \text { K.D.S. }-
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Can you blame us for being nervous? Many of us feel like CBM abendoned us. Berkeley Softworks, creators of GEOS, treated us no better. It seems that we no sooner help make a company prosperous than they move on to bigger markets! By this theory, the more successful CMD beccomes, the quicker they'll leave us. Who can blame us for foeling sittle paranoid!

Charlie's "From the Editor" speaks to this point, as well. "We have about a half a dozen people who have dedicated the last nine years of their life to the survival of our beloved C-64 and C-128 platform. So without laying it on too thick, let me simply say that our subscribers need never question our commitment to Commodore World!"

Meanwhile, some 64-weers were geting upset by continual delays on the release of the SuperCPU. I remember reading an article by Pele Baker first published in COMM-LINK ${ }^{1}$ He had sent in a $\$ 50$ deposit in January toward the purchase of 64-accelerator expected in April. He was still watting in Junc. He described his frustration of waiking for months without a satisfactory explanation from CMD.

The thing is, CMD is abour the last company providing any hardware to the $64 / 128$ wser, 20 we want to support their efforts by buying their staff. I can say that I've tried to do so, only to be put off by CMD for my trouble."

I empathize with hiru because I know meny Commodore enthusiasts questioned why a 64-acoelerator first targeted for February was not shipped until August! This can test anyone's patience. But I also feel a great deal of empathy for CMDi

Imagine the whole Commodore world holding its breath, waiting for YOU to make good on a promise! The pressure would be ENORMOUS! And this isn't just any promise either. This one requires you to resolve some of the moat difficult technological challenges that anybody in Commodore has ever mastered!

I remember speaking sbout this to Charlie back in 1992 when I was prepering an article for geoVISION magazine. I

## Author's Note:

Merk Fellowe crenad my m 00 S and begen io maxtue il in 1908 a Follows, the. The following your, he pined with Cherles A. Cribitimsion to bund Creative Micro Designs, Inc. (CMD) in arder to expend end to produce new products.

Commodore ance referred to Connnodore Buaness Mactinims, Inc. (CBMM). Shce they wert benkupt, the word "Commodore,' as uned in the articte, never reters to the Conmodore busines. It atweys reters to the Comniodore 64 and 128 in thet various forms of to the comminily of Commodore enthusiasts throughoul America and around the world.

is a rademark of
Creative Micro Designs, Inc.

asked Mim then about the posibility of a CMD "uribo cartridge." He answered that current canridges all had compatibility problems. CMD would never create such a in socelerator unless it could be made largely compatible with existing herdware and sotware. He kff me with the impression that such a task would be next to impossible and that it was unlikely they would ever pursue it.

Fast forward four years, and look around. The impossible is about to happen! CMD is so very close and, yet, so far.

As Charlic explained to me in July, the SuperCPU's were our on the dock resdy to be shipped on three different occasions only to be pulied back in for further modification. All ordered SuperCPU's were, at that momenk, sitting in the warehouse ready to go. Almost! Only one thing was missing. Mark Fellows, CMD's other founder, was barricaded in his labratory, laboring hour after endess hour to perfeat the ROM chip or "brin" needed to complete it

Now that the SuperCPU is an sccomplished fact, the crisis is over and we can all breathe a sigh of relief. My SuperCPU $s$ s plugged into my 64 and GEOS glides like "greased lightning." In seems like "God's in his heaven, all's right with the world, " a least, until next time.

Today I find it hard to believe that, for nearly balf the exisience, I hardly heard of CMD. Early or, I became a geoNur. As I would tell my friends, 'If GEOS doesa't do it, neither do I!' Since GEOS doesn'I need JimfyDOS, I had no conlact with CMD.

Everything changed in 1991. CND introduced the RAMLink and I was hooked I was so impressed by their revolutionary REU that I wrove an anticle in 1992 which appeared in the Premier [Jan/93] issue of geoVISION magazine. My faith in the magazine soured when in only survived three insues, but my perceptions on CMD proved prophetic.

If you have a copy of this issue in your archives, turn to page 6 and find a feature story enticted, "Commentary on 1992: CMD Takes Center Susge."
"Hy far the most exciting development ...in 1992 was the accendency of Creative Micro Designs (CMD). This was the year that they pushed the HandDrive, mastered she RAMKLink, and introduced the new FD drives.

Once upon a time we depended upon CBM for hardware and Berteley for sofinare...But who do you nurn to when you want to 'push the envelope?' When you want 10 expand the limits of your compuring world, who do you call? I usually call CMD."

Since that time, CMD has become Cominodore's Main Distrifutor. As - compurer friend expreseed recently, "It seems like all the other suppliers are durmping what they have on their shelves and getting out of the Commodore business. CMD is abour the only place where I can buy what I need."

Too often we have seen people leave their Commodores... because they could no longer accept the uncertainties...

## These uncertainties

 must end!!!I pointed out that the reason they continue to diatribute while others "clowe oun" is simple. What they cannot purchase from their suppliess, they produce! This is especially true in the area of Commodore compatible hardware.

Take a moment to consider what our Commodore workd was like when CBM left us; that is when they stopped developing new products for our 64 's. Then think about whet we have now.

For instance, when CBM left us, I had - 1351 mouse with a roller that was never quite round. It was so sueecptible io dirt and grime that I hed to cteen it continually. Now I use it three-bution mouse from CMD that is so "smant," it can tell time! It works great and keeps clean!

When CBM left us, we had a ram
expansion with a maximurn storage capacity of 512 tilobytes $(\mathrm{K})$, or half i megabyre (MB). Today, by using the RAMLink, we can have up io 16 MB.

When CBM lett, our fastest modem was 2400 bpse (bsuds per second). Now several sources provide modems exceeding that. CMD's offering is the Swin-Link which is advertised at 14,400 bps but has been known to schieve speeds of $38,400 \mathrm{bpe}$.

When CBM lefl us, the largeat capacky drive was the 1581, a $31 / 2^{\prime \prime}$ disk drive. It stores 800 K or about 08 MB .

Unfortunately, CBM dida't make many of them; 20 there weren't enough to go around. CMD reaponded by producing the FD-2000 with a capecity of 16 MB . This drive doubles the memory capacity avilatle on the 1581, much as the 1571 doubled the capacity of the 1541 drive.

By far the most dramatic difference between then and now is the maximum socessible memory on a single dive. We have reviewed the 1581 drive and tis 800 K ( 0.8 MB ) capacity. That was all we hed.

Since then, eeveral hard divives hove been adapted for the Commodora, but CMD went even further. They created an innovation called "CMD mative mode' pertitions which can viry in size from a block ( 256 bytes) to 16 MBI A Commodore can recognize as many as 254 of these partitions.

Now imagine formatting your hard drive 30 that you can create 254 netive mode partitions, each of which is 16 MB in sixs. Your Commodore 64/128 cea now access up 104.4 gigabytes (GB) on a single drivel

If you are like me, you are asking, "What's a gigrobte?

Simply put, a gigabyte is approximately a billion bytes of memory. For instance, my LUCKY compurer dub ${ }^{2}$ is justly proud of is library which hes about 13001541 disks. Yeh, our library contains less than one-fourth of a gigabye of data. We could increase it by a factor of menty, and it could still fit omto one Commodore-compatible hard drive!

Comparing again the ofd to the new, CBM's 1581 left us with a maximum drive capacity equal to five 1541 disks. Through

CMD native mode partitions on a hard drive, we can now store up to 4A gigabytes, which is equal to the combined storage of 27.5001541 disks! Now that is what I call growk! ${ }^{3}$

So far we have only discussed hardware. Check out a CMD ad from 1991 of 1992, and you'll find lituk sotware is offered. Today their advertisements read like "Who's Who in Commodore Softwarel*

They have worked diligently to bring all the commercially visble software [the really good stuf] under one roof. For instance, GEOS users are grateful that CMD could negotiate with Berkeley to keep GEOS alive. Thus, a company which was once principally hardware-oriented now offers the best Commodore scitware, as well.

How about communications? CMD publishes Commadore World which is the only national glossy print magazine we have. They also have taken over the job of SYSOP on GEnic.

Last, but not least, they offer support for those who need their computer equipment repaired. They may cost a littie more, but they know as much about the inside of your Commodore as any company in America. When all else fails, send it to CMD!

- Someone will likely conclude that this article was written to endorse CMD. If that opinion encourages anyone to incresse their patronage, well and good; but is misses the point!

Since I became a Commodore user in 1982, I have never seen our community take such "body blows" as it has suffered in the last several years. We have seen Commodore magazines die that shouldn't have. We suffered the death of a parent (CBM). We waiched the beis, Escom AG of Germany, distain the the 8 -bit technology which we hold so dearly and they hold so casually! Such disappointments cut deeply.

Thankfuily, even the darkest clouds can carry a silver lining. For instance, LOADSTAR still produces a super disk magazine. GEOS users appreciate Maurice Randall, whose geoprogramming is a godsend. I know you can think of others.

Nevertheiess, the sad eveats of the recent peat have spewned a sense of calamity and apprebension within many, and these are mot the building blactes of a strong compuring familyl Too ctea we have soen people leave their Commodores, mot became they were excled by another platiorm, bit becave they could no longer scoept the unoertainties of this onel

These mecertalatios muet cadil! A clear message must echo in ever conner of our compuier world thet, whit the development of the SuperCPU, the Commodore has turned an importana comer. The peaduhum which lus been swinging the wrong way for yeas is now moving in our direction. The find of support that we once sought from CBM can now be found at CVID!


There is a story close to howe that ilfustrates my point. My son-in-law, Roger Lawhom, is a prognmmer. He has writen programs like GEOSTDPLAYER and COLOR Geoprint which are probably wed in every "Commodore" coustry on the planel. When the begen progmaming in MS-DOS for financial ressons, the never lost his love for Commodore.

Recently, when I demoastrated my SuperCPU for him, he wanted to begin Commodore programming immediately! He soon sold his 486 computer so be could purchase a SuperCPU and a used CMD HardDrive. As a programmer, be can see all kinds of new possibilities!

We still need to remember that the people at CMD are people and, therefore, not perfect. Yes, they could have done a
beter job of explaining to us why there were 50 many delays on the SuperCPU. But Pere Baker will be the first to tell you that it was definitely worth the watil

Let's almo give crodit where credit is due. We know our Commodores are soo sough to die. CMD eppeass to have the savyy to share thet vision, at well st the viadom to capitalize on in. Por tast the aine years, they have intelligently sought to fill the gape and plug the holes in the good ship Commodore, and we should thank them.

You should aloo recognize that with the completion of the SuperCPU, CMD hes really "come of agel" You'll never get the modest folls of Eaxt Longmendow to admit in, but they beve provea themelves capeble of doing anything that they sboolvely, reeolutely see thoir minds to accompliabing!

What can we expect in the future? If my perceptions of CMD in 1992 were sccurate, perhaps you will allow me to share my perceptions for 19\%. I see a company thet is generally pleased with their poation in the industry and content to continse their curreat direction for the foresceable future. If the bad news is that CMD may, indeed, be a company "on the move" the good news is that they plan to tale us righ along whe them. It promises to be an extraordinary ride!

Now that the SuperCPU's re flying out the door, whet might CMD be planning for en encore? Reed all sbout in in pent 2 CCMD, Comnodore's Maior Developer.".

1 COMAHAK it the nowidere for HACC, ith Area Conmodone Gib. Contad them though fin Smith, 743 dound Anv, Yube Cly CA 85091
 Kentucky, me, PO. Box 9551, Lovirivis KY see00 0561 . E-Mill then al 3000 ergioucom
${ }^{3}$ Hoed dives acouding 2C8 muat be epectily ordered from CMD, P. O. Bax 640, Enat Longmeadow MA 010es or you can cill 180063.3263.

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## SKy FOX - A Reriew

Ok, now I am coing to talk about 3-d flyine aimulation that will blow your socks off. Providing you like flying combat. This came puts you in cockpit of space age flying machine.

Some games are all strategy, some are all action, buy many of the best cames require both forethought and quick reflexes. Skyfox is one of those cames, and it's clearly one of the best out there. With its' many levels of difficulty and player options, virtusily anyone will find it challenting and rewardine.

The elements of stratecy in this came recall the venerable computer game of star trek. You're the last hope of the federation asteroid base, the only pilot availeble. What's more, you've cot to fly this experimental jet without sufficient training, and you can't even recall everything this advanced craft can do.

The esteroid base has been attacked by the enemy, one or more immense motherships which convulsively discore wave efter wave of tanks and planes. Thair mission is to destroy the federation homebase which houses the skyfox computar and the only place where you can refuel and recharge your shields. From time to time, you must check with your computer's erid map of the entire asteroid to see where they are eetting close to homebase. You should try to take them out. If homebase is destroyed you can still prevail, but it will be far more difificult.

The action elements of the came are among the best you'll ever see: realistic, realtime craphics; excellent stereo sound; complex air and cround battle scenes. heat-seekine missiles, laser cannons, enemy tanks and planes, clouds, cockpit controls, etc. are all vivid and believably recreated using computer crephics in three dimensions. Skyfox is more than e came: it's an effective visual and aural simulation.

The simulation is made more rich by the large number of options you have during your struegle to overcome the enemy: tectical map; room maps of individual sectors; utomatic pilot; an installation status report; fuel, speed, and shield indicator; $x$ and $y$ coordinates; a compass readout; forward and rear radar scanners; techniques to move between sky and eround battle; and an altitude indicator. Make cood use of these tools and you'li find yourself capable of moving up in rank and attempting some of the more drastic invasion scenarios.

Before an invasion starts, you select one of five lavels raneing from cadet through ace of the base. Then you choose one of the 15 scenarios. There are 7 trainine scenerios durine which you can work to improve the accuracy of your control over the inortial motion of skyfox and steel your nerves acainst the smoke and flame and relentless attack of enemy tanks and planes. There are no motherships durine trainine. Also, homebese cannot be destroyed.

When you feel confident that you're raady for the real thing, solect esmall, full, or massive invasion. These differ primarily in the number of motherships ective durine the came. If you eventually become truly skilled, there are the five ultimate invasions during which multiple motherships attack using different formations and varying stratecies to take out your homebase. These scenarios are called halo, lemo, advancine wall, chess, and cornered.

Spesd, sophisticated eraphics, and quality stereo sound, is an excellent medium for this challenging, vividly realized game.

In senge, this games goes to show us just how far the designers and programmers can take a little and do lot.
From The Room Down Under.
Carru 9. Balles

1) \& 留《

## The, Blastheel in

Okay, okay... so I haven't inished the changes to Empire. It s keeping itself busy, and I am not bout to mess with it while it is rorking correctly. I only ever hear bout it when something is wrong. I in going to work on it this weekend, ;o that means a reset... gauranteed. io play while you can, and I will rost the finals before $I$, ummm, iillit.

So, how is the BBS running? Are ie using it? I need to check with iscjockey to see if the UD sections ire working correctly. If anyone las any questions, drop ma line... iither email on the BBS, LU2, or , ia the 'Net, Legacyeiglou.com and I ill try to drop a reply. Another lay to get me, is to contact either lave, or Dan-o, they are both on the IBS, and on the 'Net.
Has anyone seen the Super CPUs 'et? The guys on the 'Net have, and . is a mixed review. Host of them :hink they are OK, but of limited 18e. The software that will not un, either at all, or in a correct ashion, is long. Some of it works lood, mostly GEOS and its supported rograms.

If you run GEOS, consider one. lut. you will be looking at more :hanges to take advantage of it. lormal 1541, 1571, and even 1581 Irives are slower than it is... so .t has to wait for them. If you Líready have, or are planning on urchasing CMD units, the HD series, :D series, and the RAMLink/RAMdrive, :hen you are grinning, cuz what does .t matter how fast the computer uns, if you have to stop and swap lisks every two seconds??? But :hink about this: All the Commodore ; 4 stuff in the world will run on an JNodified 64 or 128, with very few ixceptions. So think about what you dill gain from the expenditure.

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## 2um3NAT30縕 . . .

So, how has everything been going in your Commodore land. Things have been just fine for me, thank you very much. This month's newsletter contains an excellent article by your future newsletter editor, Dale Sidebottom. It is a HUST READI: Especially for GEOS users.

The last month has seen my heart soar as far as the BBS is concerned. Six, count 'em SIX, days in a row I had to use a multi-dialer in order to get through. Obviously, the board's usage has increased. It wasn't all that long ago that I could log on every month (once a month, aind you) and read all the new bulletins in a matter of minutes. Lately, I have been logging on almost daily and I'm finding new posts every time. A big round of applause for those of you taking advantage of this outstanding asset of our club. Now all we have to do is get Legacy to make the "Empiref" game a little more equalized, and perhaps more limited in size, and we'll have it madelifi!

As I alluded to previously, Dale Sidebottom will be taking over the reins here at the LUCKY Report in a couple of months. I hope that you will continue to give him the support and appreciation that you have given Legacy and me. It would be nice, however, if a few more of you would submit articles. When one is first beginning an adventure like this (and it is an adventure), things are difficult enough as it is without struggling to come up with material.

Mow, let's see if I've got this straight. Winter is coming, and that means more time computing, LUCKY as a club is standing strong and fast. CMD is giving us, as Commodore users, as much support as CBh ever did. The LUCKY BBS usage is up. The sun is shining. And only two more newsletters for me to produce. LIFE is good.

LIVE LONG AND PROSPER, L.U.C.K.Y. PEACE ANP LONG LIFK, Commodore. TANSTAAFL Dan 7nawle

A soces) 903.84049 lita. It in darived by takint the in clock fregnerky (17. 7347Mante) end dividina it by 18. Thus the PNL 64 ecturally rums nlower then the NTSC; One.

A \%Og D) Data in latched in to the G6XX on the fulling edge of Phio (Phil). The timing diagrain in moma books ( 64 PRG is one) is incorrect.

A SOMA) The 75XX line mand in the 264 series (Plum/d and C1G), and the B5XX werias used in the (xicic and Clizs maries.
 $=$ (09. The annwar involvan explaininf a (mis)featimes of the NHKS (G5XX (XXI lime. The above code instructs the (iSXX (XXU to usfo yaro - pafa addrassining moda to load the accimilator. In zero-pade adherssinf the addirass need only ba ore bjta rida ( $\$$ FF in this cass), because the high byte is considened to be $\$(0)$. Now, as humars, wa ronild enpect the CPI monld add 10 to 265 (\$FF) CIVIME $2 \times 5$ ( $\$ 100$ ) an the adkross to load the acximenintor ficm. However, the (CY) dassianars dacidad that rauo-page eddrasssimf maans that the high byte will be $\$(0)$ all tha time, no exceptions. If a situation like the above occang, the low by'te of the addition rill be maxd as the lom bjte of the adicress ( 9 in this case), bit the hieh-byte will ba 28R0. All zearo peate addracesing mockes work this was. Note that the (204s reasions of thes GF02 do parform tha hieh byte "fix-1p", sp) this bahavior if only seesi on the NiNs paits.

A $\$$ OSC) This was a trick. The code in trying to tme INDIFDXT INDEXED indencimg mode usimf the $x$ rearinter, bast that addressing mode can only be mend with the y reurister. If the code is changed to the followimp, lempal excke: 1क 10
Ida (4FF), 5
Then, the above dimcusen ion for emro-pate addresprind holds trive hare as wall. The affectire eddrem would hare been (hi; 10)
 The nimple rule int raro pare manas avactly that. Tharg is no way to eddress ortside of zero-page with exaro-pame eddreaning.

A 5050) 1. The GEOL uned two, an the 6000 moed tro, but the GSO2 and siccearmors onlly required Phio (Phil). Phi2 was fencergted on the CP4.
A SOSE) PFPPC. Tha eddram forwad by raading $\$$ PFFD and 4 FPPC in enturfed into the IP, and the code in read ntanting there. \$FFFC, is read firwt, since the 65XX line stores addremeas in low byta, hiah byte forwat.
A wasi) Bill monach. He hand-damifnad thasm newer party in the 65KX line in the sames manmar he and (Chuck Peddie and others handdessigned the (iE0) and GFSV2.

Commodore Trivia comes to you complimente of Jim Brain. Jim posts a monthly trivia contest on Internet. His address is: BRAINGMAIL. MSEN. COM Thanx Jimil!

0 ( 0 ( 0 ) In the wid $1: 9(0)$ 'n, Commodore intirclucxed RAM Exparsion Inits for the Commokire 64, 6\$C, 128, and 1281. Thery mary threa of them. Give their model mmbers, arid what was difíarant amonef them.
(1) (3)Al) Soma of the CIA integrated cimouits used on the (xid and ci2a compriters have hardrany derfect. What is the ressult of this deferct, and when does it ocxan? (lias be mores than osk, but I neod only one)
() \$0,2) Nama the Commodnre machina(n) on which an Intel 80033 was an OPTIONAL copprocersexn. (Hint, not the IBM clones)
(1) (N)AB) On (Commodony compiters baside the Plus/4 marias, thers are three frequancias userd to recond the data on the tape. Name the frequmacies usxed.
() \$0Ad) Commodnve Plus/4 meries computers can not read ang casserttes rexconcked on other Comuockors oxmpisters. Whi? (Hints It has nothing to do with the nonstandand commector on the Plins/d)
() SOA5) Prainut power-ip, the (tomuodore 64 checks to see if it is inmintif in PAL-land or NTSX - land. How does it daterwime it:s lexation?
() \$0NG) What is the G6XX ML oprock for BRK?
() \$0A7) (on the 65XX (PXJ, what aets pushed onto the stack when an intermopt occuncs?



[^0]:    Danny Kolesel

[^1]:    IND. THE WHEEL TURNS YET ANOTHER IURN. . .
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