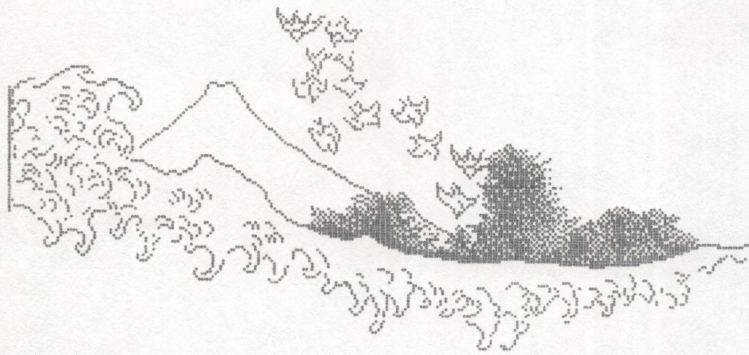




The Computer Rag



*newsletter of the Yokosuka
Computer Club*

News, Gossip & Innuendo from the
Western Pacific

Vol. 3 No. 7 Sept./Oct. 1987

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Local Gossip

October Meetings: will be held on the second Wed., Oct. 8, and the third Tues., Oct. 14, both at 6 p.m. in the General Practice Clinic Conference Room at the hospital. The Wed. meeting will feature computer music applications on the Amiga and use of a Macintosh to control a keyboard music synthesizer. The Tues. meeting will feature a discussion of the new Apple IIGS computer. If anyone brings one to demonstrate, they will be treated with great hostility by envious members. As always, both meetings are open to anyone interested in computers, regardless of experience.

Wanted: members. Unless the general membership objects, the remaining club officers (both of them) will spend the entire treasury on a wild night in Akihabara. [True, this isn't as wild as a night in Kabukicho, but computer club officers are a strange group.] It's like this: all activities for the past year or so have been generated by the same people, and they'd like someone else to do something. If there are no changes in the immediate future, the officers will dissolve the club.

Zenith micros: Zenith users are still meeting at the Degaussing Range every other Monday. If you use a Zenith at work, these are the people who can help.

Notice: if you know someone with a Macintosh who needs an external disk drive, note that a regular 512K Mac or any 128K Mac cannot use Apple's new 800K drive – these machines must use 400K drives. If you need a 400K drive, used

drives are available for approx. \$200. Contact the newsletter editor.



Non-Local Gossip

Finally: Sept. brought the formal introduction of the Apple IIGS – "graphics and sound" – which is actually the long-rumored IIX in disguise. Using a 16-bit 65C816 running at 2.8 MHz, it is three times faster than a IIc, and is 90% compatible with current Apple software. Base price for the machine is \$999 for 256K RAM (expandable to 8 Mb), and 128K ROM (which includes QuickDraw routines, ala Macintosh), and a full system will run \$1800. It supports ProDos 16, ProDos 8, CP/M, Pascal, and DOS 3.3.

Gone is IIc beige and IIc white, replaced by a new platinum color case. The IIGS has a detached keyboard with numeric keypad, and uses a 15-voice Ensoniq 32 synthesizer chip with 64K RAM dedicated to sound. IIc machines can get a GS upgrade in early 1987 for \$499. IIGS 3.5" disk drives and SCSI hard disks are interchangeable with the Macintosh, but they can't read each other's files.

Apple also has announced an SCSI card for the Apple II line for \$129, plus a 256K memory expansion card for the IIc that can be expanded to 1 Mb. In yet another announcement, Apple lowered the price of a Macintosh Enhanced to \$1,699 (from \$1,999) and a Macintosh Plus to \$2,199 (from \$2,599). The LaserWriter was also dropped to \$4,999 from \$5,999.

Near Apple: Franklin's 2100, an Apple clone,

is being sold in the Sears Fall/Winter catalog for \$799.99, including built-in disk drive and 384K RAM. Franklin is also marketing (but not through Sears) an IBM PC clone, the PC-8000, with two floppy drives and 512K RAM, for \$999.

Ashton-Tata has released dBASE Mac, a greatly enhanced version of dBASE III Plus which can read and write IBM PC dBASE files (all ya gotta do is fold up the 5.25" diskettes and put them in the 3.5" drives). dBASE Mac, however, supports pull-down menus, can store picture files, can have individual records up to 32K in length (and unlimited file length), can have up to 36 files linked together, etc.

What is really nice, though, is the method of linking: instead of complex indexes and such, all a user has to do is draw a line from one field in one file to another field in another file. dBASE Mac does not support local area networks but, according to most reports, the IBM PC networking version of dBASE III doesn't work with networks, either.

CAD: InfoWorld had a review of CAD (Computer Aided Design) software in the Aug. 11 issue. Of the 19 packages reviewed, 5 were for the Mac and 14 for the IBM. Of most interest were the prices: Mac software ranged from \$39.95 to \$995 (\$200 average), while the IBM software ran from \$99.95 to \$2995 (\$1500 average). None of the Mac software required any extra equipment beyond a printer or plotter, while all the IBM software required tons of optional graphics cards, monitors, extra memory, etc. As there are also several inexpensive Atari ST and Amiga CAD packages out now, it doesn't look like a good time to invest in CAD software for the IBM.

[Antic, for example, has CAD-3D, a \$49.95 package for the Atari ST, which can be used with special \$160 glasses to give "true" on-screen 3D images.]

Just when you thought they couldn't: Commodore reported \$1.2 million in profit for the quarter ending June 30, their first time in the black since 1984. With this boost, Commodore's losses for the past year were just \$127.9 million, or a dollar lost for every seven in income, easily eclipsing the previous year's losses of \$113.9 million. Considering their haphazard marketing of the Amiga, the company's most interesting product, Commodore may try for even greater

losses in 1987, or they might try for larger profits -- \$1.3 million, anyone?

Federal Trade Commission investigators are looking at Commodore's advertising claims that the Amiga is IBM PC compatible. According to complaints (almost all from dealers), "only 20 or so" IBM programs work on the Amiga using the software emulation program and 5.25" disk drive, and even then the programs are six times slower than on an IBM PC.

Diskette Gazette, published by International Datawares, rates black-case Memorex 3.5 inch diskettes (used by Macs, Amigas, etc.) as about the worst available, and Sony diskettes as the best. These conclusions are widely supported by local users, who almost universally condemn the black-case diskettes as being prone to crashes. If you've had problems, you might want to write to the following address, asking for an exchange. The editor recently sent 45 bad Memorex diskettes, and got 55 new (and, so far, good) diskettes by return mail. The new diskettes, by the way, have a blue case.

Michael W. Smith
Memorex Customer Service
BLDGW0064
1125 Memorex Drive
Santa Clara, CA 95052

Fonts? If you have a Macintosh and want to use fancy letters, check out World Class Fonts! vol. 1 & 2. Priced at \$69 for both volumes, you get six disks packed with over 2 megabytes of nice fonts, plus some useful font utilities. Most of the mast for this newsletter was composed using their fonts.

Dub-Click Software
18201 Gresham St.
Northridge, CA 91325

Eagle Computer Inc. has liquidated. The company had a string of bad luck, starting with the death of the company founder in an auto wreck on the day Eagle had its first public stock offering. Eagle found it couldn't make IBM PC clones as cheaply as others, and didn't have any great technology to offer, so it -- vanished.

Conroy-LaPointe, infamous mail order firm (infamous to dealers, at least), has filed for Chap. 11.

Uncle Sam bought 67,500 microcomputers in 1985, almost double the number purchased in 1984 and a huge jump from the 7,900 purchased in 1983. GSA, after auditing several micro sites,

concluded the micros not only increased productivity, they also increased the quality of work performed, and greatly increased the timeliness of work.

During 1985 Zenith sold 15,406 micros to the govt. (\$42.8 million, averaging \$2,778 per machine), while IBM sold 13,567 micros (\$47.8 million, averaging \$3,523 per machine).

Rear Adm. Grace Murray Hopper was allegedly retired in August because of Gramm-Rudman. According to the official Navy line, America's oldest service member was retired to free up billets for sea duty. Strangely enough, virtually no one seems to believe this — exactly how does a 79 year old female admiral and computer and mathematics genius hinder manning of sea billets?

Her 43 years service with the Navy doesn't quite match the record of the late Adm. Rickover, but like Rickover she is known for her willingness to be controversial and her undeniable brilliance. She is generally recognized as the world's first programmer, wrote the first compiler, wrote the first program to write programs, and is credited with inventing COBOL. Most recently, she has been touring the country, advising Navy personnel on data automation projects and lecturing on efficient use of computers. Her retirement, on Aug. 14, took place aboard the USS Constitution in Boston harbor.

Want a real IBM PC? They're cheaper now: a two drive, 256K machine is \$1595, a one drive, 256K machine is \$1445, and a 64K, no drive machine is \$1165. Ah, for the good old days, when a 64K IBM with no drives, no monitor, no printer port, no serial port, but with a genuine IBM cassette port was just a cool \$2195.

True: Big Blue, trying to kill off the clones, is attempting to patent the PC-AT keyboard and case.

True: IBM has sent threatening letters to several clone makers which use the letters "AT" in their product names.

Probably Not True: IBM is trying to get a copyright on the entire alphabet to eliminate people from unauthorized use of "PC," "XT," "AT," "ABCDE," etc.

Long delays for IBM's laptop, the Convertible, were not caused by defects, by the dumb design, or by a shortage of the non-Hayes compatible modem, but by "overwhelming

demand," claims IBM. Exactly why anyone would want a not-very-powerful, not-very-small, incompatible version of an IBM PC is not clear, but IBM claims there are many such people out there, somewhere.

Microsoft, Intel, and several other manufacturers have come out with a series of software and hardware products which allows Microsoft Windows to look as crisp, and respond as quickly, as a Macintosh. The first requirement is an IBM PC-AT (\$3500-6000), to which you add less than \$2500 in optional software and hardware. So, for just \$6000-8500, you can have a computer that works almost like a \$1495 Macintosh. Isn't science wonderful?

On the serious side, the demand for the \$2500 Windows hardware and software is so great that supplies are on allocation. It appears there are some people in the world with entirely too much money on their hands . . .

Clone wars should get even hotter now that Hyundai, the Korean auto and ship builder, has started selling the Blue Chip in the U.S. Priced at \$699, the Blue Chip is fully IBM PC compatible, and comes with 512K RAM, one disk drive, and MSDOS. It probably gets good gas mileage, too.

Lotus has finally decided to remove copy protection from 1-2-3 — but only for large corporate customers buying at least 100 copies. In a similar effort, Lotus will sell a non-copy protected version of 1-2-3 to the U.S. government through Technical Services, Inc. Unfortunately for Lotus, this comes after DOD selected Supercalc for the new Zenith contract — and virtually everyone who has tried Supercalc thinks it is better than 1-2-3.

NOAA (National Oceanic and Atmospheric Admin.) and the Army have issued requests for procurement of a portable computer compatible with the Macintosh.

Many small newspapers have switched over from multi-million dollar composing machines to Macintosh computers using page layout software. Even some big names have switched over, at least partially, including USA Today, The New York Times Co., New York News, Inc., MacMillan Publishing, and Doubleday. Unfortunately, the **Seahawk** and **Pacific Stars & Stripes** are not among this group.

Unisource Software has released "Feima," a \$95 Chinese word processor for the

Macintosh. Even the drop-down menus are in Chinese — no English is required.

Don't want anyone to find out you're playing Flight Simulator on your Mac during duty time? Falcon Microsystems (1801 McCormick Dr., Landover, MD 20785) has released a \$5945 TEMPEST certified Macintosh and \$3400 Imagewriter-compatible TEMPEST printer. Falcon will also retrofit existing Fat Macs to meet TEMPEST standards for \$4350.

Falcon's TEMPEST Mac comes with 512K RAM and two internal disk drives. The extra disk drive, combined with the TEMPEST shielding, bumps the weight from 17 pounds to 26 pounds. If you don't know what TEMPEST is, here's a hint: it has nothing to do with Shakespeare.

Enzanhoshigumi Co. (it looks better in kanji) has released two disks worth of Japanese clip art for the Macintosh — really nice stuff, but expensive. But what's **really** interesting is their plan for a new ink-brush package for the Mac, which offers a menu listing such choices as "Fude-size," "Sumi," and "Washi." If anyone has this, contact the editor!!

Microsoft Works, a Macintosh version of Appleworks, is out now for \$295. While it isn't as powerful as Word or Excel, almost everyone agrees it is "pretty slick," and just the thing for computer novices. Release of Works is rumored to have pushed back the release of Microsoft Word 2.0 for the Mac.

Next, Inc., Steve Job's new outfit, bought Solaster Corp. to get hold of their new Macintosh word processor. Now Next has sold marketing rights to the package to T/Maker. Right-Now, as the package is called, will be out in Oct. for \$175. What next?

Not everyone at NASA can use their new Cray-2 (a modest machine with just 256 million words [16 billion 8-bit bytes] of memory), so some researchers are using the Prodigy 4. The Prodigy 4 is essentially your everyday Mac Plus, but with a 16 MHz 68020 CPU, 68881 math coprocessor, and 4 megabytes of RAM, all for just \$7000. For those who don't need quite this much horsepower, there is the Turbo Amiga for \$5,765, with a 10 MHz 68020, 68881, and just 2 megabytes of RAM.

For their 1986 fiscal year, ending June 30, Tandy reported \$3 billion in total revenues, with earnings for the year of \$197.7 million. Profits

would have been even higher, but Tandy spent lots of money buying several companies and purchasing back a large chunk of its own stock.

Tandy has added four new PC-compatible computers, the 3000HL with 512K RAM, 80286 CPU, one floppy drive, and three slots, for \$1699; the 3000HD, with 640K RAM, one 1.2 megabyte floppy, a 40 megabyte hard disk, and 80286 CPU, for \$4299; the 1000SX, with two floppys, 384K RAM, and five slots, for \$1199; and the 1000EX, with one floppy, 256K RAM, and three slots, for \$799. Tandy also announced the Color Computer 3 with 128K RAM and a 2 MHz 6809E CPU for \$219.95, making it by far the cheapest multi-user multi-tasking computer in the world.

Wang fans (keep the jokes to yourself, please) should rejoice at the new Wang laptop computer. Easily the ugliest laptop yet, the machine is designed to act as a portable terminal to a Wang VS network, and comes with a 10Mb hard disk and built-in thermal printer. Priced at \$3,500, it can run only a few IBM PC programs under an emulation mode.

Alps America shipped 25,000 P2000G printers to Zenith in July and August, all part of a contract worth up to \$50 million. The Alps printers are the first contract modification to the big Department of Defense contract with Zenith for up to 90,000 IBM PC-AT compatible machines and peripherals. Under the original contract, printers were to be supplied by MPI, which has a considerable reputation, but not necessarily a positive one.

InfoWorld, in an Aug. 4 review, gave the Zenith Z-200 very high marks in everything but price. As the DOD price is far less than the standard list price, this shouldn't bother anyone ordering a Z-248 for their work area. **InfoWorld** also reported users were having problems with Z-248 machines overheating. Follow-up reports suggest this may have been a false alarm.

Zenith Electronics lost \$14.6 million in the first six months of 1986. Significantly, the computer systems division increased sales by 19 percent, to \$143 million — losses appear to have come from other divisions.

YCC Catalog: on the next several pages you will find a listing of Yokosuka Computer Club's Macintosh, Apple, IBM, and Commodore disks. Not shown are some Radio Shack cassettes, plus several tons of magazines and books.

YCC Macintosh Software: Yokosuka Computer Club now has several megabytes of public domain software for distribution to club members. If you want a copy of these disks, contact the newsletter editor. **Disk highlights:** Ycc1- Japanese language operating system, desk accessories (including MockWrite word processor and a nice calendar); Ycc2- Fonts; Ycc3- Games; Ycc4- Utilities; Ycc5- Finder 4.1 update and utilities; Ycc6- MacPaint pictures; Ycc7- Altered operating system, MacTalk demo, miniWriter desk accessory word processor; Ycc8- MacPaint pictures; Ycc9- MacPaint pictures; Ycc10- Documentation; Ycc11- BASIC programs (requires Microsoft BASIC); Ycc12- Utilities; Ycc13-

Rascal programs (compiled Pascal); Ycc14- Educational programs; Ycc15- Dungeon of Doom (huge game); Ycc16- Musicworks files [music] and player; Ycc17- More music; Ycc18- Videoworks files [movies] and player; Ycc19- More movies; Ycc20- XLisp (programming language); M2 System, M2 Doku, MODLIB- complete Modula 2 programming language (some documentation in German).

Type key: APPL- stand-alone application; DESK- desk accessory; FFIL- font; MSBA, MSBB- Microsoft BASIC; MUSC- music; PNTG- MacPaint painting; TEXT- almost anything; VWSC- movie; WORD- MacWrite document; ZSYS- system file.

Name	Type	Disk	1k	Bell Icon	TEXT	Ycc12-Util.	1k	Clock	MSBA	Ycc5-Update
6k 12c	ZSYS	Ycc1-Nihon	9k	Both.5TH	MUSC	Ycc16-Music 1	9k	Close Encounter 3rd Kind	MUSC	Ycc17-Music 2
4k 3D-Demo	APPL	Ycc3-Games	1k	Billing Icon		Ycc12-Util.	8k	Closer to the Heart.MW	MUSC	Ycc17-Music 2
5k Alarm Clock	DESK	Ycc1-Nihon	6k	Billy Jean.MW	MUSC	Ycc17-Music 2	4k	Come & Go with Me.MW	MUSC	Ycc18-Music 1
9k Albert	PNTG	Ycc8-Paint	8k	BinHex v4.0	APPL	Ycc4-Util.	1k	Compact	DESK	Ycc1-Nihon
21k Alert/Dialog Editor	APPL	Ycc12-Util.	10k	BlackJack	MSBB	Ycc11-BASIC	8k	Compiler.MERR	TEXT	MODLIB
10k AlicePict2	PNTG	Ycc8-Paint	1k	Blank	APPL	Ycc12-Util.	9k	Concentration.bas2	MSBB	Ycc11-BASIC
6k Alremand (Bach)	MUSC	Ycc17-Music 2	4k	Blank Slide	PNTG	Ycc9-Paint III	42k	Concept Test 2.VW	VWSC	Ycc19-Movie 2
7k Almost Over You	MUSC	Ycc16-Music 1	6k	BODYANDSOUL.MW	MUSC	Ycc17-Music 2	11k	ControlPanel	DESK	Ycc1-Nihon
29k Amazing2	APPL	Ycc3-Games	6k	Born Free.MW	MUSC	Ycc16-Music 1	2k	Corvus Calendar	DESK	Ycc1-Nihon
9k Amen Chorus 1	MUSC	Ycc17-Music 2	17k	Boston.Key	PNTG	Ycc8-Paint II	9k	Create a Drill	TEXT	Ycc14-Educ
4k Amen Chorus 2	MUSC	Ycc17-Music 2	9k	Breaking Music	MUSC	Ycc17-Music 2	7k	Creator.Bas	MSBB	Ycc4-Util.
7k Analog Clock	APPL	Ycc3-Games	8k	Breaking Us in 2	MUSC	Ycc16-Music 1	7k	Creator.Lib	MSBA	Ycc4-Util.
7k Antmai	APPL	Ycc14-Educ	17k	bricks	APPL	Ycc3-Games	7k	Creator2.Bas	MSBB	Ycc4-Util.
1k Antitheft ROMIcon	APPL	Ycc12-Util.	3k	Bridge	MSBA	Ycc5-Update	4k	Creator3.Bas	MSBB	Ycc4-Util.
6k Ap12c	DESK	Ycc1-Nihon	3k	Brownian	APPL	Ycc3-Games	5k	Creator4.Bas	MSBB	Ycc4-Util.
11k AplFont	PNTG	Ycc8-Paint	1k	Calendar File	ZSYS	Ycc1-Nihon	9k	Crysantherum	MUSC	Ycc16-Music 1
55k Apple Editor	APPL	Ycc12-Util.	23k	Calendar Install	APPL	Ycc1-Nihon	17k	Dalek2	APPL	Ycc3-Games
1k Apple Icon	TEXT	Ycc12-Util.	2k	Calender	DESK	Ycc1-Nihon	19k	DAM1.4	APPL	Ycc1-Nihon
35k Aquarium	APPL	Ycc13-Rascal	9k	Canon.Modified	MUSC	Ycc16-Music 1	9k	David	PNTG	Ycc6-Paint
2k Artil.Bas	MSBA	Ycc5-Update	3k	Carol2.mus	TEXT	Ycc11-BASIC	54k	Day.Keeper	APPL	Ycc1-Nihon
5k Ascil	DESK	Ycc10-Doc	22k	Carolyn	PNTG	Ycc8-Paint II	4k	Delete	DESK	Ycc1-Nihon
23k Asteroids	APPL	Ycc3-Games	10k	Cars	PNTG	Ycc6-Paint	5k	Dialog Viewer	APPL	Ycc12-Util.
7k AutoDial	DESK	Ycc10-Doc	6k	Catalogger 1.4	MSBB	Ycc4-Util.	17k	Diddle	APPL	Ycc4-Util.
6k Axel Foley	MUSC	Ycc17-Music 2	8k	Catalogger 1.4 Doc	TEXT	Ycc4-Util.	17k	Digitizer.Info	TEXT	Ycc10-Doc
9k Bach Cantata 147.Jesu	MUSC	Ycc17-Music 2	8k	Cats	PNTG	Ycc6-Paint	1k	Disk Icon	TEXT	Ycc12-Util.
6k Bach's Preludum II	MUSC	Ycc17-Music 2	2k	Character Data	TEXT	Ycc15-Dun	7k	DiskInfo	DESK	Ycc1-Nihon
31k Backgammon	APPL	Ycc3-Games	19k	Chase.VW	VWSC	Ycc19-Movie 2	11k	DiskInfo1.2	DESK	Ycc1-Nihon
8k Balloon	MSBB	Ycc4-Util.	7k	CheapNet	PNTG	Ycc8-Paint II	11k	DiskInfo1.2	DESK	Ycc10-Doc
16k Banner	APPL	Ycc4-Util.	3k	Cheapsort.Bas	MSBB	Ycc4-Util.	13k	DiskUtility	APPL	Ycc4-Util.
1k Bar Icon	TEXT	Ycc12-Util.	4k	Cheapsort2.Bas	MSBB	Ycc4-Util.	1k	Document Icon		Ycc12-Util.
6k BaseTool	DESK	Ycc10-Doc	1k	Cherry Icon	TEXT	Ycc12-Util.	15k	Dog	PNTG	Ycc9-Paint III
6k Basin Street Blues.MW	MUSC	Ycc16-Music 1	3k	Chess	MSBB	Ycc11-BASIC	22k	Drill 1.52	APPL	Ycc14-Educ
8k Bay Mac	PNTG	Ycc8-Paint II	31k	CITY	VWSC	Ycc16-Movie 1	152	DungeonofDoomV2	APPL	Ycc15-Dun
10k Boat	PNTG	Ycc6-Paint	14k	ckurve2	MLOD	M2-System	2k	Dvorak.mus	TEXT	Ycc11-BASIC
6k Bell	PNTG	Ycc6-Paint	3k	CKurve2.MOD	TEXT	M2-System	8k	Dynasty	MUSC	Ycc17-Music 2

56k Edit	APPL	M2-Doku	5k	Hill Street Blues.MW	MUSC	Ycc16-Music 1				
7k Egnat	PNTG	Ycc8-Paint	4k	Holy Night	MUSC	Ycc16-Music 1				
1k Eject	DESK	Ycc1-Nihon	23k	Iago	APPL	Ycc3-Games				
3k Exec.Decision Maker	DESK	Ycc1-Nihon	6k	Ibm	PNTG	Ycc6-Paint		37k magic	MLOD	M2-System
8k Exec128	APPL	M2-System	49k	IBM Fun.VW	VWSC	Ycc19-Movie 2		7k Magic.MOD	TEXT	M2-System
8k Exec512	APPL	M2-System	6k	Ice Castles	MUSC	Ycc16-Music 1		1k Magnifying Glass	DESK	Ycc1-Nihon
6k Explorer	DESK	Ycc10-Doc	17k	Icon Null	APPL	Ycc12-Util.		23k Main Program	TEXT	Ycc11-BASIC
7k Extras	DESK	Ycc1-Nihon	15k	Icon Edit	APPL	Ycc12-Util.		1k Man-Icon	TEXT	Ycc12-Util
17k Eyeballs	PNTG	Ycc8-Paint II	5k	Icon Manipulator	MSBB	Ycc11-BASIC		1k Man-* Icon	TEXT	Ycc12-Util
18k	EYES	VWSC	2k	Idle	DESK	Ycc10-Doc		1k Man-? Icon	TEXT	Ycc12-Util
Ycc16-Movie 1			3k	ImageWRITERfont	FFIL	Ycc7-Altered		37k MandelTour	APPL	Ycc13-Rascal
1k FACT.LSP	TEXT	Ycc20-XLISP	2k	INIT.LSP	TEXT	Ycc20-XLISP		4k Maple Leaf Rag	MUSC	Ycc17-Music 2
38k Fedt 2.1	APPL	Ycc12-Util.	9k	Introduction	TEXT	M2-Doku		14k MasterMind	MSBA	Ycc11-BASIC
9k Ferrari308	PNTG	Ycc8-Paint	19k	Jackson	PNTG	Ycc9-Paint III		14k	Math.Key	
19k File	APPL	Ycc4-Util.	5k	Jingle Bells	MUSC	Ycc16-Music 1		PNTG	Ycc8-Paint II	
8k File.Info	MSBA	Ycc4-Util.	2k	Jobs	APPL	Ycc3-Games		24k Mglobe.Dat		Ycc5-Update
3k Filtyp.Bas	MSBA	Ycc4-Util.	7k	Journal Acc	DESK	Ycc1-Nihon		24k Mig	PNTG	Ycc9-Paint III
1k Flash	MSBB	Ycc5-Update	39k	Juggler	APPL	Ycc13-Rascal		24k MiniWRITER TM	DFIL	Ycc7-Altered
9k Flashdance Maniac	MUSC	Ycc17-Music 2	20k	Jukebox	APPL	Ycc16-Music 1		2k Minuet.mus	TEXT	Ycc11-BASIC
30k FLITE	VWSC	Ycc18-Movie 1	20k	Jukebox	APPL	Ycc17-Music 2		23k MirrorBalls	APPL	Ycc13-Rascal
6k Font Blaster	APPL	Ycc12-Util.	17k	July 4th.VW	VWSC	Ycc19-Movie 2		22k Misc Pkts	PNTG	Ycc8-Paint II
30k Font Manager Demo	APPL	Ycc2-Fonts	9k	Jump.MW	MUSC	Ycc17-Music 2		9k Missile Command	APPL	Ycc3-Games
13k Font Mover	APPL	Ycc2-Fonts	59k	Jupiter II	VWSC	Ycc19-Movie 2		8k Mmdisk	WORD	Ycc10-Doc
6k FontDoublor	APPL	Ycc2-Fonts	24k	Keeshond	PNTG	Ycc8-Paint II		4k MockPrint	DESK	Ycc1-Nihon
8k For Your Eyes.MW	MUSC	Ycc16-Music 1	1k	Keno Icon	TEXT	Ycc12-Util.		10k MockTerm	DESK	Ycc1-Nihon
4k Frp Die Roller	DESK	Ycc1-Nihon	3k	Key Caps	DESK	Ycc1-Nihon		9k MockWrite	DESK	Ycc1-Nihon
2k Galaxy	APPL	Ycc3-Games	1k	Lazlife.Info	TEXT	Ycc10-Doc		8k modula.txt	TEXT	M2-Doku
9k Gambler.MW	MUSC	Ycc17-Music 2	6k	LET IT BE	MUSC	Ycc16-Music 1		2k Mondrian	APPL	Ycc3-Games
10k Garden.Life	PNTG	Ycc3-Games	3k	Level 01	TEXT	Ycc15-Dun		9k Money	PNTG	Ycc8-Paint
10k Geography	APPL	Ycc14-Educ	9k	Life	APPL	Ycc3-Games		7k Mouse	PNTG	Ycc6-Paint
6k Ghost Busters	MUSC	Ycc16-Music 1	9k	Like a Virgin	MUSC	Ycc17-Music 2		6k MouseBall	MSBB	Ycc11-BASIC
10k Ghost Busters	PNTG	Ycc8-Paint	29k	LINE UP	VWSC	Ycc18-Movie 1		58k Mousing Around	APPL	Ycc5-Update
4k Globe	MSBA	Ycc5-Update	6k	LisaConvert	APPL	M2-System		1k Move To Top	APPL	Ycc8-Paint
13k Go.Bas	MSBA	Ycc5-Update	7k	List Catalog 1.4	MSBB	Ycc4-Util.		21k mozart	APPL	Ycc14-Educ
11k Go.bas.2	MSBB	Ycc11-BASIC	13k	Locomotive	PNTG	Ycc6-Paint		9k Mr. Sandman	MUSC	Ycc17-Music 2
11k Gold	PNTG	Ycc8-Paint	2k	Log Control	MSBB	Ycc11-BASIC		6k Msball.V25	MSBA	Ycc11-BASIC
34k Gongland	APPL	Ycc13-Rascal	11k	London	PNTG	Ycc6-Paint		6k MsballV2.5	MSBA	Ycc5-Update
5k Granchester Meadows	MUSC	Ycc16-Music 1	7k	Lone Ranger	MUSC	Ycc17-Music 2		12k Music.bas	MSBA	Ycc11-BASIC
10k Guerilla	PNTG	Ycc8-Paint	9k	MNM, He's Mine	MUSC	Ycc17-Music 2		5k My Funny Valentine.	MUSC	Ycc17-Music 2
44k GUIDE.TEXT	TEXT	M2-Doku	27k	m2comp	MLOD	MODLIB		20k My God!!	PNTG	Ycc9-Paint III
29k Hacker pom.VW	VWSC	Ycc19-Movie 2	6k	Mac Art	MSBA	Ycc5-Update		9k My Life by Billy Joel	MUSC	Ycc17-Music 2
8k Hacker's Theme	MUSC	Ycc16-Music 1	9k	Mac Encounters 3rd Kind	MUSC	Ycc17-Music 2		1k NameEraser	MSBB	Ycc11-BASIC
1k Hall of Legends	TEXT	Ycc15-Dun	15k	Mac Environment pl. 1	WORD	Ycc10-Doc		4k NCC1701	PNTG	Ycc8-Paint
1k Hand Icon	TEXT	Ycc12-Util.	1k	Mac Icon	TEXT	Ycc12-Util.		9k New Amsterdam	MUSC	Ycc17-Music 2
16k Hangman	APPL	Ycc14-Educ	27k	Mac Talk	APPL	Ycc12-Util.		7k New Life	APPL	Ycc3-Games
4k Hex Calculator	DESK	Ycc1-Nihon	27k	Mac Talk	APPL	Ycc7-Altered		7k New Penny	MUSC	Ycc17-Music 2
7k Hex Dump	APPL	Ycc4-Util.	14k	MacBackup	MSBB	Ycc11-BASIC		8k NewtArt	MUSC	Ycc16-Music 1
9k Hey Jude	MUSC	Ycc16-Music 1	8k	MacClone	APPL	Ycc4-Util.		4k NewKeyCaps	DESK	Ycc10-Doc
14k HI-QPuzzle	MSBC	Ycc11-BASIC	35k	MacInTalk Speech Demo	APPL	Ycc7-Altered		7k Nightmare	APPL	Ycc3-Games
9k Hiero	MLOD	M2-System	9k	MacLink Serial Cable	PNTG	Ycc8-Paint II		8k NipponCharA	PNTG	Ycc6-Paint
2k Hiero.MOD	TEXT	M2-System	6k	MacMelody	APPL	Ycc3-Games		9k No More Tears	MUSC	Ycc17-Music 2
								8k Nude	PNTG	Ycc6-Paint

6k	Old Calculator	DESK	Ycc1-Nihon	4k	Scrapbook	DESK	Ycc1-Nihon		
1k	Orange Icon	TEXT	Ycc12-Util.	6k	ScreenMaker	APPL	Ycc8-Paint		
10k	Orbital Mixing	APPL	Ycc14-Educ	9k	Search Is Over	MUSC	Ycc16-Music 1	5k	That Same Old Obsession
12k	Orbital Mixing Help	ZSYS	Ycc14-Educ	15k	Set Icon	APPL	Ycc12-Util.	2k	The Creator
2k	Original Clock	DESK	Ycc1-Nihon	6k	SetFile	DESK	Ycc10-Doc	23k	The Oracle.VW
4k	Out Here On My Own	MUSC	Ycc16-Music 1	3k	Shape	MSBA	Ycc5-Update	12k	The Paint Escape.VW
9k	Over The Rainbow	MUSC	Ycc16-Music 1	11k	Shapes	MSBB	Ycc11-BASIC	8k	The Sycamore Rag
23k	P.H.#1Hints 1	PNTG	Ycc9-Paint III	2k	Shatter DemoList	VWSC	Ycc18-Movie 1	5k	Thriller
23k	P.H.#1Hints 2	PNTG	Ycc9-Paint III	6k	Shoe	PNTG	Ycc6-Paint	19k	Tiger
36k	Painter'sHelper#1	APPL	Ycc9-Paint III	14k	Shots	MSBB	Ycc11-BASIC	15k	Tiger-2 level
4k	PaintGrabber	DESK	Ycc10-Doc	3k	Signal	TEXT	Ycc4-Util.	24k	Tiger2
19k	Pan	PNTG	Ycc9-Paint III	19k	Silicon Volleyball	APPL	Ycc14-Educ	2k	Time
6k	Pfs/review	TEXT	Ycc10-Doc	1k	Simon's Bars	TEXT	Ycc12-Util.	26k	TITLE
7k	Pink Floyd's Money	MUSC	Ycc17-Music 2	1k	Simon's Icon		Ycc12-Util.	4k	Toccatina
8k	Pink Panther	MUSC	Ycc16-Music 1	11k	Simunet	APPL	Ycc12-Util.	1k	ToggleKeys
22k	PIRandom	MLOD	M2-System	30k	SKIDDER	VWSC	Ycc18-Movie 1	17k	Traders.VW
5k	PIRandom.MOD	TEXT	M2-System	5k	SkipFinder	DESK	Ycc10-Doc	10k	Train
1k	Playlist 1	MUPL	Ycc16-Music 1	5k	Sleep.info	TEXT	Ycc10-Doc	4k	Transfer
1k	Playlist2	MUPL	Ycc17-Music 2	6k	Slide	APPL	Ycc9-Paint III	20k	Trek
4k	Print Shapes	MSBB	Ycc11-BASIC	4k	Slide Show info	TEXT	Ycc10-Doc	14k	Update Catalog 1.4
5k	PROLOG.LSP	TEXT	Ycc20-XLISP	4k	SlideShow	APPL	Ycc3-Games	9k	UpMidc
3k	Promen.mus	TEXT	Ycc11-BASIC	4k	SlideShow	APPL	Ycc8-Paint	3k	Uriah
2k	Purge Icon	APPL	Ycc4-Util	1k	Slots Icon	TEXT	Ycc12-Util.	3k	Using 'DRILL'
20k	pyramid	APPL	Ycc13-Rascal	16k	Smokey	PNTG	Ycc8-Paint II	9k	Vampire.Bas
6k	Qd.Text	TEXT	Ycc7-Altered	17k	Smt3.0.Bas2.0	MSBC	Ycc11-BASIC	23k	Videodisc
2k	Qdplot.Txt	TEXT	Ycc10-Doc	3k	Sns-Figs	TEXT	Ycc11-BASIC	3k	ViewPaint
2k	Qsort.Bas	TEXT	Ycc11-BASIC	12k	Soft Dial	APPL	Ycc4-Util.	3k	ViewPaint
8k	Queen's Dances 1	MUSC	Ycc17-Music 2	15k	SoftSpot Editor	APPL	Ycc4-Util.	13k	Viper
2k	Quick Dir.	APPL	Ycc12-Util.	1k	SoftSpot Icon		Ycc12-Util.	18k	VWplayer
5k	Raiders of the Lost Ark	MUSC	Ycc16-Music 1	5k	Sounddemo	APPL	Ycc3-Games	18k	VWplayer
8k	Raiders of the Lost Ark	MUSC	Ycc17-Music 2	5k	Sounds	DATA	Ycc18-Movie 1	11k	Wave Maker
2k	Ramdis	APPL	Ycc12-Util.	5k	Sounds	DATA	Ycc19-Movie 2	9k	We Don't Need Another Hero
2k	Ramdisk	APPL	Ycc12-Util.	22k	Space	APPL	Ycc13-Rascal	14k	WindowDemo
7k	Rhapsody	MUSC	Ycc16-Music 1	26k	Space Limp.VW	VWSC	Ycc19-Movie 2	7k	Winter Wonderland
12k	Read Me First!	WORD	Ycc10-Doc	5k	Squeeze File	APPL	Ycc12-Util.	9k	Wishing
5k	Reader	DESK	Ycc10-Doc	5k	Squeeze File	APPL	Ycc4-Util.	31k	Witch
6k	Red Nose Reindeer	MUSC	Ycc16-Music 1	8k	SR-71	PNTG	Ycc6-Paint	15k	Word Search
2k	Rekey.Bas	MSBB	Ycc4-Util	212	StandardFonts	FFIL	Ycc2-Fonts	4k	WordCount
5k	Remington Steele	MUSC	Ycc16-Music 1	5k	Star Trek.Boot	TEXT	Ycc11-BASIC	1k	WORDS
6k	Reporter.Bas	MSBB	Ycc4-Util	4k	Star Wars	MUSC	Ycc18-Music 1	6k	World
17k	Reversi	APPL	Ycc3-Games	2k	Start	TEXT	Ycc11-BASIC	41k	WOW
4k	Robot	PNTG	Ycc14-Educ	6k	Sting	MUSC	Ycc16-Music 1	64k	XLISP 1.5b
7k	Rolling Stones .Lady J	MUSC	Ycc17-Music 2	15k	Stop Watch	PNTG	Ycc8-Paint II	54k	xlisp doc.
23k	Rooful	PNTG	Ycc9-Paint III	5k	Strwar.mus	TEXT	Ycc11-BASIC	47k	XLisp.Small Version
2k	Rotations	APPL	Ycc3-Games	7k	Super Copy	APPL	Ycc4-Util.	8k	Xmas
3k	Rpn.calc	DESK	Ycc1-Nihon	10k	Switcher	APPL	Ycc7-Altered	8k	Yacht
3k	Sample	DESK	Ycc1-Nihon	2k	System Bugs	DESK	Ycc1-Nihon	18k	Yahtzee V2.3
1k	Sample.mus	TEXT	Ycc11-BASIC	98k	System Update	APPL	Ycc5-Update	8k	Yellow Submarine.MW
9k	SanJose	MUSC	Ycc17-Music 2	6k	Telegraph	DESK	Ycc10-Doc	8k	Yesterday
6k	Satum	PNTG	Ycc8-Paint II	4k	TestPaint	PNTG	Ycc14-Educ	7k	You Are The One
5k	Schubert Serenade	MUSC	Ycc17-Music 2	21k	Tetrahedron	APPL	Ycc13-Rascal		

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IBM-PC	UTILITY	228	A	1
PC-SIG	MISC. GAMES--SEE DICS		A	1
PC-SIG	BEST GAMES	274	A	2
PC-SIG	GAMES	37	A	3
PC-SIG	FINANCIAL PROGE.	25	A	4
PC-SIG	INDEX UTILITIES	26	A	4
PC-SIG	SYSTEM MASTER, 3.3		A	5
PC-SIG	BOWLING LEAGUE SEC.	23	A	6
PC-SIG	GAMES	45	A	6
PC-SIG	dBASE UTILITIES	128	A	7
PC-SIG	ARCADE GAMES	209	A	7
PC-SIG	DRAW	38	A	8
PC-SIG	FLIGHT SIMULATOR	39	A	8
PC-SIG	GAMES	293	A	9
PC-SIG	LADYBUG, LOGO-TYPE, PRO. LANG.	94	A	10
PC-SIG	STOCKMARKET	40	A	11
PC-SIG	FINANCE PROGRAMS	47	A	11
PC-SIG	MATH TUTOR	95	B	1
PC-SIG	RBBS VER. 12.2	212	B	2
PC-SIG	SPACE	176	B	3
PC-SIG	SPPC DEMO, STAT. PACKAGE	232	B	4
PC-SIG	DISKCAT, 4.3f (UTILITIES)	106	B	5
PC-SIG	ULTRA-UNSQEZE (UTILITIES)	245	B	6
PC-SIG	FABULA (ULITIES)	145	B	7
COMMODORE 64/ VIC 20		02	C	1
COMMODORE 64/VIC 20		03	C	2
COMMODORE 64/VIC 20		04	C	3
COMMODORE 64/VIC 20		05	C	4
COMMODORE 64/VIC 20	MATH 1		C	5
COMMODORE 64/VIC 20	GAMES III		C	6
COMMODORE 64	SCIENCE 1		D	1
COMMODORE 64	SCIENCE 3		D	2
COMMODORE 64	ENGLISH 2		D	3
COMMODORE 64	ENGLISH 5		D	4
COMMODORE 64	ENGLISH 7		D	5
COMMODORE 64	HISTORY		D	6
COMMODORE 64	MATH 2		D	7
COMMODORE 64	MATH 3		D	8
COMMODORE 64	MATH 4		D	9
COMMODORE 64	MATH 5		D	10
APPLE	CUE SOFT SWAP #1		E	1
APPLE	CUE SOFT SWAP #2		E	2
APPLE	CUE SOFT SWAP #3		E	3
APPLE	CUE SOFT SWAP #4		E	4
APPLE	MATH & STATISTICS	172	E	5
APPLE	MATH & STATISTICS	174	E	6
APPLE	MATH & STATISTICS	176	E	7
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APPLE	APPLEWORKS PRINTER CONFIG.		F	1
APPLE	WATSON/INSPECT		F	2
APPLE	LOCKSMITH/ BACK-IT-UP		F	2
APPLE	TRUSTY CODE		F	3
APPLE	M.L.E./A.L.E		F	3
APPLE	CRAZY COPY		F	4
APPLE	NIBBLES AWAY II		F	4
APPLE	APPLE SOFTWARE BANK (GAMES)	253	F	5
APPLE	APPLE SOFTWARE BANK (UTILITIES)	253	F	5
APPLE	dBASE MANAGEMENT PROGRAM	049	F	6
APPLE	MULTI. PROGRAMS- SEE DISC		F	7
APPLE	MULTI. PROGRAMS-SEE DISC		F	8
APPLE	GAMES	119	F	9
APPLE	GAMES	112	F	10
APPLE	CPM		G	1
APPLE	CPM		G	2
APPLE	CPM		G	3
APPLE	CPM		G	4
APPLE	CPM		G	5
APPLE	CPM		G	6
APPLE	CPM		G	7
APPLE	CPM		G	8