

EduCALC TECHNICAL NOTES

27953 CABOT ROAD LAGUNA NIGUEL, CA 92677

GOODIES DISC # 6 DESCRIPTION

Goodies #6 continues the Goodies disc series covering the time from mid October 1991 to mid January 1992. This is a typical Goodies disc. Numbers 2 & 4 are not. Please help the many people who work very hard to bring this material to you by keeping the following in mind as you experience bewilderment and joy while exploring the Goodies Discs. These discs will appeal to serious HP 48 users, and may be disappointing to casual users who have little experience with public domain software.

1. The Goodies Discs are HIGH DENSITY. You must use a 1.2 M Byte 5 $\frac{1}{4}$ " drive or a 1.44 M Byte 3 $\frac{1}{4}$ " drive to read the discs. Lower density drives will produce errors. If you have a machine with both high and low density (360K, for example) drives you may copy the Goodies discs to four or five low density discs. For obvious reasons it is not reasonable to provide Goodies Discs in a low density format.
2. The Goodies Discs are provided "as is." The people who have spent many hours of their time to make this material available do not have the time to provide answers to questions. Just like a salted peanut you will want more - there just isn't any more. You should look at the goodies discs as something to explore, study, test, and experiment with; not as something you must be able to use or understand. Do not call EduCALC, Joe Born, or Hewlett-Packard with questions about files on the Goodies Discs.
3. The Goodies Discs are for DOS machines. Apple (Mac) operating systems can not use these discs. If someone is able to properly convert files to an Apple format we would be interested. You must have the right equipment and knowledge of both environments. Goodies # 2 & 4 are not suitable to attempt conversion. Actually a part of # 2 could be converted.
4. The Goodies Discs provide the best at the lowest cost. The programs and other information provided on the Goodies Discs are often the only sources of information available on subjects like Assembly and system level RPL programming. Most inexperienced users simply buy the Goodies Discs as they become available so they can go to them when someone tells them that a needed program is on a Goodies Disc. These discs may be read from Sparcom's Drive 95 disc drive. The \$269.95 product is a low cost vehicle to back up your HP 48, and take advantage of hundreds and hundreds of powerful programs.

GOODIES DISC SUMMARY

NO.	3 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "	TN	Primary Source	Time Coverage
1	2320	2410	28	HP BBS	900306 to 901012
2	2453	2452	29	Voyager (Sys RPL)	901019 to 910115
3	2484	2483	30	HP BBS	910116 to 910627
4	2486	2485	31	HP LAB (CVD)	August 1991
5	2356	2355	32	HP BBS	910628 to 911020
6	2387	2386	33	COMP.SOURCES.HP4	911021 to 920111

Goodies Discs may be ordered from EduCALC by stock # for \$ 4.95 each plus S & H. Descriptions of the Goodies Disc concept and the contents of the discs may be obtained by requesting the associated Technical Note and sending a 29 cent stamp for each TN you request. Goodies #7 is nearly completed. Goodies # 8 is well along. Starting with Goodies # 7 each disc will have a cumulative index with search capability. Searching for "GROB" for example, on Goodies discs 1-6 will give you the following:

File C:\INDEX1-6\GDINDX63.DOC:

doodle	5GR	Collection of doodled GROBs	-Julian Green
dragon	3	Large GROB of a Warrior on a Dragon	-Sean Ahern
grph	2	3D Grob of a Hill w/ Hidden Surface	-?
look	6PR	'Lucy' example of PGROB/UPGROB	-Erik Bryntse
mapd	5WO	USA Grob with Lat/Long Output	-Scott Ferry
monsters	5GR	Pretty Uglies (GROB collection)	-Julian Green
pgrob	6PR	Improved GROB Packer	-Erik Bryntse
rotate	5UT	Rotate GROBs to Print Lengthwise	-Craeger & Thompson
saturn	3	Digitized GROB of the planet Saturn	-Frank G Baird
tif2grob	3	PC Graphic to 48 GROB Converter	-Hewlett Packard
upgrob	6PR	Improved GROB Unpacker	-Erik Bryntse

The second column is the disc number and two letter designation for the subdirectory.

EduCALC Goodies Disk #6

HP 48 Public Domain Software

Collected and annotated by Joseph K. Horn
1,099,856 bytes in 226 files on volume HORN6

Root Directory of HORN6:		
Filename.ext	Bytes	Description
!readme!.doc	4,972	HORN6 Disk Overview - Read Me First
about.doc	2,404	Poop Sheet about Goodies Disk #6
descript.ion	588	File descriptions for 4DOS users
fileinfo.fi	1,215	File comments for Norton FI owners
fileinfo.src	13,923	Table of Contents of Goodies Disk 6
support.doc	1,441	EduCALC "Goodies" Customer Support
Directory	Description	
ANIMS	Animated Video Programs (not games)	
GAMES	Interactive Video Games	
HACKER	Goodies for HP 48 Hackers	
MATH	Mathematical Utilities	
POSTINGS	Text-Only Articles from HP's BBS	
PROGRAMR	Goodies for HP 48 Programmers	
UTILS	Heavy Utilities for HP 48 Users	
WORK	Real-World, Useful, Non-Silly Stuff	

Directory of HORN6:ANIMS - Animated Video Programs (not games)			
Filename.ext	Bytes	Description	Author(s)
animate	11,017	Boy, Man, Horse & Eye. Impressive!	Richard Earl
animate.doc	2,304	... ANIMATE documentation	
animate.src	30,019	... ANIMATE source code	
bclock	1,439	BIG(!) Digital Clock with Seconds	Abhijeet J. Singh
bclock.asc	2,998	... BCLOCK in ASC format	
bclock.doc	320	... BCLOCK documentation	
bclock.src	2,061	... BCLOCK source code	
bounce	572	Bouncing Ball on Status Line	Douglas R. Cannon
bounce.asc	1,213	... BOUNCE in ASC format	
bounce.doc	1,190	... BOUNCE documentation	
bounce.src	784	... BOUNCE source code	
descript.ion	996	File descriptions for 4DOS Users	-jkh-
fileinfo.fi	2,062	File Comments for Norton FI owners	-jkh-
lem	308	Lemming walks across status line	Detlef Mueller
lem.asc	663	... LEM in ASC format	
lem.doc	1,465	... LEM documentation	
lem.m	72	... LEM command file for SLOAD	
lem.s	2,002	... LEM source file for RPLCOMP	
life	3,658	John Conway's "Game" of Life	Timm Ganske
life.asc	7,573	... LIFE in ASC format	
life.doc	2,645	... LIFE documentation	
tank	1,375	Tank Battle on the status line	Douglas R. Cannon
tank.asc	2,868	... TANK in ASC format	
tank.doc	1,280	... TANK documentation	
tank.src	1,717	... TANK source code	

Directory of HORN6:GAMES - Interactive Video Games			
Filename.ext	Bytes	Description	Author(s)
blinky	2,541	SuperCHIP version of PacMan	Hans Christian Egeberg SCHIP (self-extracting file) PC
blinky.asc	5,307	... BLINKY in ASC format	
blinky.com	8,749	... BLINKY compressed source code	
blinky.doc	1,760	... BLINKY documentation	
chess	9,165	Ancient Game of Chess, HP vs You!	Paul Dale
chess.asc	18,927	... CHESS in ASC format	
chess.doc	2,038	... CHESS documentation	
chess.src	13,685	... CHESS source code	
descript.ion	1,201	File descriptions for 4DOS users	-jkh-
fileinfo.fi	2,524	File Comments for Norton FI owners	-jkh-
garbage.asc	15,748	... GARBAGE in ASC format	Detlef Mueller
garbage.doc	7,706	... GARBAGE documentation	
garbage.lib	7,610	Improved version of MOVE (SOKOBAN)	
mastermd	5,615	The game of MasterMind	Nico Ghilardi
mastermd.asc	11,613	... MASTERMD in ASC format	
mastermd.doc	595	... MASTERMD documentation	
mstmind	3,424	Another MasterMind game	Matt Wormley
mstmind.asc	7,092	... MSTMIND in ASC format	
mstmind.doc	2,860	... MSTMIND documentation	
silo	3,896	Projectile Wars game (aka Gorilla)	Virgil Wall, Jr.
silo.doc	1,287	... SILO documentation	
silo.src	4,408	... SILO source code	
tetris	1,969	Another TETRIS (a CHIP48 game)	Fran Dachille CHIP48
tetris.doc	2,322	... TETRIS documentation	
tetris.src	3,683	... TETRIS source code	
tetris13.asc	5,955	... TETRIS13 in ASC format	Detlef Mueller ML
tetris13.doc	3,463	... TETRIS13 documentation	
tetris13.lib	2,870	Yet Another Tetris (ML)	
vaders	9,308	Space Invaders clone, Fast & Clean!	Joe Ervin ML/MPE
vaders.asc	19,228	... VADERS in ASC format	
vaders.doc	3,582	... VADERS documentation	

Directory of HORN6:HACKER - Goodies for HP 48 Hackers			
Filename.ext	Bytes	Description	Author(s)
change	265	Program Global Search & Replace	Philippe Colbach
change.asc	581	... CHANGE in ASC format	
change.doc	1,250	... CHANGE documentation	
cut	425	Cuts Redundant RPL from Any Program	Philippe Colbach
cut.asc	907	... CUT in ASC format	
cut.doc	2,442	... CUT documentation + Warning!	
descript.ion	676	File descriptions for 4DOS users	-jkh-
fileinfo.fi	1,446	File comments for Norton FI owners	-jkh-
mkmsgtst.bat	237	... MTL batch file for DOS	Detlef Mueller
msgtst.mn	184	... MTL command file for MAKEROM	
msgtst.s	2,542	... MTL source file for RPLCOMP	
mtl.doc	1,824	... MTL documentation	
mtl.lib	278	Message Table Library custom errors	
mtl.m	132	... MTL command file for SLOAD	
strip	443	Improved version of CUT	Simone Rapisarda
strip.asc	962	... STRIP in ASC format	
strip.doc	3,084	... STRIP documentation + Warning!	

Directory of HORN6:MATH - Mathematical Utilities			
Filename.ext	Bytes	Description	Author(s)
allf	371	All Factors (divisors) of X	Joseph K. Horn
allf.doc	3,694	... ALLF documentation	
bmxl.asc	8,978	... BMXL in ASC format	
bmxl.doc	10,347	... BMXL documentation	
bmxl.lib	4,322	Binary Matrix Algebra Library	Gadiel Seroussi
descript.ion	979	File descriptions for 4DOS users	-jkh-
fileinfo.fi	2,062	File Comments for Norton FI owners	-jkh-
fracts	1,640	Fraction Calculations package	Frank A. Vorstenbosch
fracts.asc	3,419	... FRACTS in ASC format	
fracts.doc	2,802	... FRACTS documentation	
leastsq	1,949	Least Squares Polynomial Curve Fit	Anthony K. Donno
leastsq.doc	3,367	... LEASTSQ documentation	
leastsq.src	2,523	... LEASTSQ source code	
phi	163	Euler's Totient Function	Joseph K. Horn
phi.doc	1,451	... PHI documentation	
phi.src	302	... PHI source code	
polyfit	2,264	Exact Polynomial-to-Points Fitter	David F. Kurth
polyfit.doc	3,125	... POLYFIT documentation	
polyfit.src	8,411	... POLYFIT source code	
probdist	3,150	Probability Distributions package	Luca Radice
probdist.doc	468	... PROBDIST documentation	
probdist.src	7,962	... PROBDIST source code + comments	
stocdist	599	Empirical Stochastic Distribution	Luca Radice
stocdist.doc	665	... STOCDIST documentation	
stocdist.src	1,736	... STOCDIST source code + comments	

Directory of HORN6:POSTINGS - Text-Only Articles from HP's BBS			
Filename.ext	Bytes	Description	Author(s)
cats.doc	468	SYSEVAL addresses for the CATalogs	Philippe Colbach
descript.ion	444	File descriptions for 4DOS users	-jkh-
drain.doc	3,919	Battery Drain Table, by Operation	Douglas R. Cannon
drain2.doc	1,469	Battery Drain Table, by State	Simone Rapisarda
fileinfo.fi	907	File comments for Norton FI owners	-jkh-
hwreg.doc	3,009	Hardware Register Bit Uses	Julian Taplin
keys.doc	3,312	Default Keys Program Addresses	Philippe Colbach
keytable.doc	3,873	Unused Keys (available for ASN)	Simone Rapisarda
tempob.doc	1,003	Quaint Bug that Views TEMPOB	Detlef Mueller
welcome2.doc	8,796	Posting Guide for comp.sources.hp48	Chris Spell

Directory of HORN6:PROGRAMR - Goodies for HP 48 Programmers			
Filename.ext	Bytes	Description	Author(s)
bandb.asc	1,702	... BANDB.LIB in ASC format	
bandb.doc	2,522	... BANDB.LIB documentation	
bandb.lib	813	Bits And Bytes (units) library	Klaus Kalb
chipper.com	17,274	... CHIPPER.C source code	(self-extracting file) PC
chipper.doc	30,268	... CHIPPER documentation	
chipper.exe	61,129	CHIP48/SCHIP Assembler writes games	Hans Christian Egeberg PC
descript.ion	1,124	File descriptions for 4DOS users	-jkh-

...PROGRAMR directory continues with 'fast' on next page...

fast	104	Turbo Mode for HP 48 (11% faster)	Detlef Mueller
fast.asc	244	... FAST in ASC format	
fast.doc	2,174	... FAST documentation	
fast.m	75	... FAST command file for SLOAD	
fast.s	1,253	... FAST source file for RPLCOMP	
fileinfo.fi	2,370	File comments for Norton FI owners	-jkh-
look	1,938	... 'Lucy' example of PGR0B/UPGR0B	Erik Bryntse
look.asc	4,043	... LOOK in ASC format	
look.doc	106	... LOOK documentation	
pgrob	261	Improved GROB Packer	Erik Bryntse
pgrob.asc	564	... PGR0B in ASC format	
pgrob.doc	2,789	... PGR0B documentation	
play	4,680	This Is Your 48 Speaking, digitized	Lutz Vieweg
play.asc	9,677	... PLAY in ASC format	
play.doc	1,331	... PLAY documentation	
timeeval	86	Object Execution timer (like XTIME)	Poul-Henning Kamp
timeeval.asc	212	... TIMEEVAL in ASC format	
timeeval.doc	1,855	... TIMEEVAL documentation	
timeeval.s	1,021	... TIMEEVAL source file for RPLCOMP	
upgrob	174	Improved GROB Unpacker	Erik Bryntse
upgrob.asc	388	... UPGROB in ASC format	
upgrob.doc	97	... UPGROB documentation	

Directory of HORN6:UTILS - Heavy Utilities for HP 48 Users

Filename.ext	Bytes	Description	Author(s)
asc2bin.c	1,873	... ASC2BIN source code in C	
asc2bin.doc	2,178	... ASC2BIN documentation	
asc2bin.exe	7,636	Improved ASC-to-binary PC program	Detlef Mueller
buport	545	Backup All Objects in a Port to IO	Poul-Henning Kamp
buport.asc	1,157	... BUPORT in ASC format	
buport.doc	2,983	... BUPORT documentation	
buport.s	2,136	... BUPORT source file for RPLCOMP	
descript.ion	1,325	File descriptions for 4DOS users	-jkh-
falseclr	294	Sneaky Memory Clear simulator	Rick Grevelle ML
falseclr.asc	637	... FALSECLR in ASC format	
falseclr.doc	3,113	... FALSECLR documentation	
fileinfo.fi	2,678	File Comments for Norton FI owners	-jkh-
fontsrc.com	9,481	... Self-extracting QED fonts	(self-extracting file) PC
fontsrc.doc	1,296	... FONTSRC documentation	
qed.dir	20,055	Quick Editor - VERY quick! ver 1.07	Lutz Vieweg ML
qed.doc	38,348	... QED documentation	
qedsmall.dir	13,193	... "Test Drive" version of QED	
tsend	189	Improved IR Turbo SEND: 7680 baud!	Lutz Vieweg
tsend.asc	437	... TSEND in ASC format	
tsend.doc	1,021	... TSEND/TSERVE documentation	
tserve	897	Improved IR Turbo SERVE: 7680 baud!	Lutz Vieweg
tserve.asc	1,915	... TSERVE in ASC format	
tserve.doc	173	... TSERVE documentation	
up	416	Improved UP,, like HP-42's EXIT	Detlef Mueller
up.asc	881	... UP in ASC format	
up.doc	1,855	... UP documentation	
up.m	69	... UP control file for SLOAD	
up.s	1,847	... UP source file for RPLCOMP	
uud	354	A UUdecoder that runs on the HP 48!	Jan Brittonson
uud.asc	766	... UUD in ASC format	
uud.doc	2,842	... UUD documentation	
uudecode.doc	1,259	... UUDECODE documentation	
uudecode.exe	12,232	Improved UUdecoder for PC	

Directory of HORN6:WORK - Real-World, Useful, Non-Silly Stuff

Filename.ext	Bytes	Description	Author(s)
adr	3,555	QED-based Address Book	Lutz Vieweg
adr.asc	7,382	... ADR in ASC format	
adr.doc	770	... ADR documentation	
air	1,344	Sample directory for FLYING.LIB	Steve Mauser
air.doc	64	... AIR documentation	
air.src	1,685	... AIR source code	
cal	3,087	Improved Event Organizer, ver 1.03	Kevin Jessup
cal.asc	6,405	... CAL in ASC format	
cal.doc	5,444	... CAL documentation	
csim	10,208	Circuit Simulator	Per Stenius
csim.doc	25,451	... CSIM documentation	
csim.src	13,921	... CSIM source code + comments	
descript.ion	1,971	File descriptions for 4DOS users	-jkh-
fileinfo.fi	3,987	File comments for Norton FI owners	-jkh-
filter	1,010	Digital Filter Demo	Kevin Jessup
filter.doc	2,684	... FILTER documentation	
filter.src	4,513	... FILTER source code + comments	
fly	46	Automates the use of FLYING.LIB	Steve Mauser
fly.src	87	... FLY source code	
flying.doc	36,782	... FLYING.LIB documentation	
flying.lib	29,079	Flight Planning/Tracking Library	Steve Mauser
gausselm	1,454	Matrix Decomposition Utilities	Robert Brunner
gausselm.doc	1,400	... GAUSSELM documentation	
gausselm.src	2,023	... GAUSSELM source code	
pte.asc	19,436	... PTE.LIB in ASC format	Torsten Wittman
pte.doc	2,066	... PTE.LIB documentation	
pte.lib	9,410	Graphic Periodic Table with lookup	
resistor	4,238	Resistor Value Utility	David J Sprenkle
resistor.doc	370	... RESISTOR documentation	
resistor.src	4,953	... RESISTOR source code	
roldx	4,920	Another Rolodex (User RPL directory)	Jim Weisbin
roldx.asc	10,183	... ROLDX in ASC format	
roldx.doc	7,935	... ROLDX documentation	
sky	6,579	Pocket Planetarium	Chris Heilman
sky.doc	1,544	... SKY documentation	
sky.src	8,211	... SKY source code	
suite3d	10,134	3D Graphing Suite	HP (Charles Patton)
suite3d.asc	20,933	... SUITE3D in ASC format	
suite3d.doc	20,525	... SUITE3D documentation	
suite3d.src	14,051	... SUITE3D source code	
timer.doc	3,888	... TIMER.LIB documentation	Steve Mauser Steve Mauser
timer.lib	4,673	Timer Applications, version 1?	
timer2.lib	4,285	Timer Applications, version 2?	
timer2.src	6,346	... TIMER2.LIB directory source code	
tyko	25,806	Another Pocket Planetarium	K. M. Sinenmaa
tyko.doc	13,962	... TYKO documentation	
tyko.src	17,375	... TYKO source code	
xunit	2,147	Inverse of UBASE	Lutz Vieweg
xunit.asc	4,453	... XUNIT in ASC format	
xunit.doc	1,826	... XUNIT documentation	

NOTICE: This disk is NOT copyrighted. You are free to copy any or all of the files on this disk for any purpose and for anybody you wish. Copies called "Goodies Disks" should be exact duplicates, however, without additions, deletions, or changes. If it's not a real Goodies Disk, please don't call it one. Thank you. -jkh-

DEDICATED WITH GRATITUDE TO CHRIS SPELL, MODERATOR OF COMP.SOURCES.HP48,
WITHOUT WHOSE VOLUNTEER WORK THIS COLLECTION WOULD NOT HAVE BEEN POSSIBLE.

This is Joe Horn's personal collection of favorite HP 48 goodies, disk #6. It contains many excellent programs by many excellent programmers. Most of these files were downloaded from HP's Corvallis bulletin board system.

The files are contained in subject-oriented subdirectories. List FILEINFO.SRC for a complete listing of all the files and a brief description of each. (Original EduCALC Goodies disks come with a printed copy of this file). The Norton FI utility was used to "attach" these descriptions onto every file and subdirectory on the disk; if you own FI, you will enjoy using it with the Goodies Disks. Use the /L switch to show the author's name. If you are a 4DOS user, you can also use its automatic file description output, but the authors' names will not be displayed.

Note: Everything on this disk is either freeware or shareware.
If you use the shareware, please register as instructed.
PLEASE DO give copies of this disk to everybody!
(But if you do, please don't change the contents.)

FILENAME EXTENSIONS

*. *.DIR	(no extension) = raw binary downloadable HP 48 object. Directory object (special case for QED & QEDSMALL only)
*.DOC	Documentation for HP 48 file, or an article in plain ASCII text. * If a file has no DOC, look for comments in its source code.
*.SRC *.APP *.S *.M *.MN *.ASC *.RPL	HP 48 Source Code (user code) in downloadable ASCII format.* * If a file has no SRC, look for its source code in its DOC file HP 48 Source Code (user code) in PDL format, with comments. HP 48 Source File (System RPL / Assembly) in RPLCOMP format. SLOAD control file. MAKEROM control file. ASC-> decodable uncommented hex listing ** ASCII-> decodable fully commented "System RPL" source listing **
*.GRO *.LIB	HP 48 Graphics Object (GROB) in binary format HP 48 Library in binary format (load, store in a port, & purge)
*.BAT *.EXE *.COM	IBM PC batch file; not for HP 48. Macintosh, Amiga, etc. IBM PC executable; not for HP 48, Macintosh, Amiga, etc. IBM PC compressed but self-extracting file(s).

** ASCII-> is in the HACKIT library, found on Goodies Disks #3 & #5, and
ASC-> is in the ASC file, found on Goodies Disk #1.

Notes: Files with the same name before the extension are all related. For example, FRED would be a downloadable binary; FRED.SRC would be its source code (possibly commented); FRED.DOC would be its documentation; etc.

Do not include any comments in GROBs' SRC files; they make GROB2TIF fail. All other listable files have their authors' names somewhere in the first few lines. If I couldn't figure out who wrote it, it'll say "By ?".

I have tried to provide documentation of some sort for every file on this disk. Any help would be appreciated in writing docs for those files missing them; for example, if you know who wrote a file "by ?", please let me know so that proper credit may be given on the next Goodies Disk.

Diskette file recovery: This disk is doubly protected against accidental loss of contents. Several hidden files on the disk allow the full use of MS-DOS 5.0's UNDELETE and UNFORMAT commands. For those without DOS 5.0, Norton's equivalent QU and FR utilities are also supported.

Diskette optimization: The contents of this disk are 100% unfragmented. Golden Bow Systems' VOPT and Norton's SD are used to optimize the disk for speedy access.

Viruses: This diskette was verified as virus-free by Microcom's VPSCAN version 1.20, and will remain virus free as long as you keep it write-protected.

Directories: DIR produces alphabetized file listings, even if you don't have DOS 5.0, since the directories are sorted using Golden Bow Systems' VDS and Norton's DS.

Apologies to those whose files I accidentally mangled or miscredited. Warm thanks to all authors whose works lurk herein!

These files are not guaranteed in any way; use at your own risk.

CUSTOMER SUPPORT POLICIES FOR EDUCALC PD GOODIES DISK #6
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(1) The EduCALC Goodies Disks have been "successful" beyond my wildest dreams. Several thousand copies have sold. This is good news and bad news. It's good because it means that many people appreciate good PD software. The cross-pollination of ideas will result in even better software. But it's bad because it means that there are thousands of people with thousands of new questions. And they sometimes expect me to answer them. I can't. I make no money off this project. It's my hobby. If you send me a stamped, self-addressed postcard and make it REAL EASY for me to answer, then I might be tempted to oblige. But if it costs me any money, or isn't fun, please don't expect any WordPerfect-style 24-hour 800-number support.

(2) The files on this disk are not guaranteed in any way. Use at your own risk. EduCALC copies and sells these disks as a service, not as a product, and does not offer customer support for them in any way. All e-mail to me at the email address below will be answered. Do not ask me how to use these programs; read the .DOC files, and then you'll know more than I do.

Thank you for your HP 48 enthusiasm. Let's keep this PD concept going!

- - - Joseph K. Horn
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- - - EduCALC
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