

EduCALC TECHNICAL NOTES

27953 CABOT ROAD LAGUNA NIGUEL, CA 92677

HP 48 GOODIES DISC # 8 DESCRIPTION

The Goodies Discs keep getting better and better. Joseph puts a lot of work into them. In addition you will notice that they are produced to set standards. An example is the policy of not allowing compressed files on the Goodies discs. Joseph works with the files and provides clarification where needed. He keeps up to date with new products and tries to keep the discs compatible with ever changing technology. The Sparcom Drive 95 is an excellent example. Every serious HP 48 user needs a Drive 95 and banked switched RAM card for maximum convenience of program availability and back up.

Speaking of software availability, EduCALC offers its OTP burning service which could be used to produce a Games card or a Hackers card. There is so much good software out there that even a 128K card would be too small. If someone has the time to gather the programs - mostly from the Goodies Discs? - and offer a RAM card for duplication I can handle burning part of the project. A Dozen people could probably get a 128 K card for less than \$45. No batteries to worry about! This could even include a few pages of documentation, an important part of the project. Just a thought.

Apple users often call me to tell me that they have read the 48 program files on their Mac and collected them onto a Mac disc. They are willing to share this disc and want EduCALC to offer the disc to Apple users. This disc would not be a Goodies Disc! There is much more that must be done. The text files would have to be provided. There are several file types that could not be "converted" and would have to be omitted. The process is not an easy one. Many Mac users would like to have Goodies Discs designed for them. I am always interested in expanding this program, but I do not own or use a Mac and I could not check these in any way. I would have to depend on some one else. In addition to the obvious considerations mentioned above there would have to be a summary of the conversion process provided and included with the documentation of each disc. We have discussed this at our local club meetings. Dave Marsh has the ability and experience to "convert" the Goodies discs to a Mac version. He has been too busy to complete this task. He will, however, discuss the requirements with anyone who is willing to take on the job.

PLEASE REMEMBER that none of the many, many people involved with this project have the resources to provide support for these discs or their application. Explore them, enjoy them, study them, but don't expect us to answer questions. Use the Index to search for subjects of interest.

Happy Programming, Richard Nelson.

EduCALC Goodies Disk #8

19 February 1993

Collected and annotated by Joseph K. Horn
1,063,914 bytes in 246 files on volume HORN8

ROOT DIRECTORY

Filename.ext	Bytes	Description	Author(s)
IREADME!.DOC	5105	HORN8 Disk Overview - Read Me First	Joseph K Horn
ABOUT.DOC	3335	Poop Sheet about Goodies Disk #8	
COPYRITE.DOC	2028	Notice of Copyright, Warranty & Rights	
CREDITS.DOC	284	Corrections to Credits on Previous Disks	
DESCRIPT.ION	1210	File descriptions for 4DOS/NDOS users	Joseph K Horn
FETCH.BAT	27	Global Goodies Disks File Finder	
FETCH.BTM	40	... FETCH for 4DOS users	
FETCH.DOC	2026	... FETCH documentation	
FILEINFO.SRC	13520	Table of Contents of Goodies Disk 8	Joseph K Horn
GD8.DOC	3046	... GD8.IDX documentation	Steve Thomas, Joe Horn
GD8.IDX	46762	Global Goodies Disks Index #1 - #8	
GREP.COM	7029	Quick Text Searcher; like UNIX's GREP	Borland International
GREP.DOC	17929	... GREP.COM documentation	
SEND.BAT	291	Condolence message to non-4DOS users	Joseph K Horn
SEND.BTM	92	Automated Disk-to-48 for 4DOS users	
SEND.DOC	1770	... SEND documentation	
SUPPORT.DOC	1436	EduCALC "Goodies" Customer Support	Joseph K Horn

Directory Description

ANIMS	Animated Video Programs (not games)
DETLEF	Detlef Mueller's <-LIB-> & <-RPL-> Tools
GAMES	Interactive Video Games
HACKER	Goodies for HP 48 Hackers (SRPL & ML)
HP	Goodies From Hewlett Packard Company
MATH	Mathematical Utilities
POSTINGS	Text-only Articles from HP's BBS
PROGRAMR	Goodies for Heavy HP 48 Programmers
TUNES	Quaint Melodies & Sound Effects
UTILS	Heavy Utilities for HP 48 Power Users
WORK	Real-World, Useful, Non-Silly Stuff

Directory of HORN8:ANIMS - Animated Video Programs (not games)

Filename.ext	Bytes	Description	Author(s)
RAT	2770	Another Status Line critter (a shy one)	Jeremy Smith
RAT.DOC	1388	... RAT poop scoop	
RIPPLE2	8932	Debugged RIPPLE from Goodies Disk #3	Sean Ahern, Erik Bryntse
RIPPLE2.DOC	1609	... RIPPLE2 documentation	
TILT	293	Bouncing Line "Screen Saver"	Detlef Mueller
TILT.DOC	376	... TILT documentation	

Directory of HORN8:DETLEF - Detlef Mueller's <-LIB-> & <-RPL-> Tools

Filename.ext	Bytes	Description	Author(s)
BINTS.DIR	2363	D->LIB example source code	Detlef Mueller
BNF.DIR	6209	Bakus-Naur-Form Parser	Detlef Mueller
BNF.DOC	14856	... BNF documentation	
CNFLIB.DIR	1585	Source code for Warmstart Config Library	Detlef Mueller
CNFLIB.DOC	12698	... CNFLIB.DIR documentation	
DEBUG.DOC	2561	... DEBUG.LIB documentation	
DEBUG.LIB	5469	System RPL Debugger!	Detlef Mueller
GENTAB.C	5566	ANSI C source code for RPL.TAB generator	Detlef Mueller
LIB.LIB	7087	Library Creator & Editor	Detlef Mueller
LIBRARY.DOC	8745	HP Note re: ATTACH, DETACH, & \$CONFIG	Charlie Patton
LIBXMPL.DIR	1151	D->LIB example: MYpar Read/Write	Detlef Mueller
LINE	4764	->COD example: Line draw/clear/toggle	Detlef Mueller
MKROM.DOC	4318	... MKROM.LIB documentation	
MKROM.LIB	3334	48-based Clone of HP's MAKEROM Utility	Detlef Mueller
MKROMX.DIR	2555	... MKROM example	
QIX.DIR	4346	->RPL example: animation demo	Detlef Mueller
README.1ST	3800	Overview of the whole DETLEF package	Detlef Mueller
RPL.LIB	25257	System RPL Developer's Toolbox ver 4.1	Detlef Mueller
RPL.TAB	24022	... RPL.LIB lookup table	
RPL48.DOC	67452	... RPL.LIB & LiB.LIB documentation	
RPLXMPL.DIR	14123	->RPL example	Detlef Mueller

Directory of HORN8:GAMES - Interactive Video Games

Filename.ext	Bytes	Description	Author(s)
ARKANOID.DOC	1712	... ARKANOID.LIB documentation	
ARKANOID.LIB	8563	Hyper-Breakout, with Level Editor	Christophe Nguyen
AWARI.DOC	5695	... AWARI.LIB documentation	
AWARI.LIB	6516	Ancient African Beans & Buckets Game	Garth Sweet
BATTY	7889	Break-Out in ML w/ Astounding Intro	??
BATTY.DOC	853	... BATTY documentation	
BATTYJR	2220	... BATTY Junior (no intro or options)	
BOULDER.DOC	1409	... BOULDER.LIB documentation	
BOULDER.LIB	14546	Dash Past Boulders To Get The Diamonds	Christophe Nguyen
DIADEMO	4515	Demo of DIAMONDS, Macintosh Game clone	Douglas R Cannon
DIADEMO.DOC	5204	... DIADEMO documentation	
GOLF	4939	Golf Game adapted from HP 28 program	David Waelder
GOLF.DOC	2961	... GOLF documentation	
MMIND	5425	Better Mastermind Game	Nico Ghilardi
MMIND.DOC	1067	... MMIND documentation	
QR	10887	Quick Reversi, the Best Ever!	Leon Pavlov
QR.DOC	6025	... QR documentation	
TRONII.DOC	4441	... TRONII.LIB documentation	
TRONII.LIB	9194	TRON Light Cycle Game, ver II	Christophe Nguyen

Directory of HORN8:HACKER - Goodies for HP 48 Hackers (SRPL & ML)

Filename.ext	Bytes	Description	Author(s)
HACKIT.DOC	482	... HACKIT.LIB documentation	
HACKIT.LIB	3176	Improved HACKIT Library	Rick Grevelle
KEYOB	33	Key Object Recaller (menus, too)	Joseph K Horn
KEYOB.DOC	1708	... KEYOB documentation + examples	
KEYUTIL	1428	System-RPL keyboard control package	Brian Maguire
KEYUTIL.DOC	6154	... KEYUTIL documentation	
LIB4.DOC	914	... LIB4.LIB documentation	
LIB4.LIB	111	Selective Library Configuration Aborter	Daniel Kirkland
LIBS.DOC	15461	Currently Used Library ID Numbers	Joseph K Horn
MDISP	2310	Machine-Language Replacement for DISP	Rick Grevelle
MDISP.DOC	20255	... MDISP documentation & source code	
RCLKEY	31	Gets Standard (default) Key Definition	Brian Maguire
RCLKEY.DOC	1244	... RCLKEY documentation	
SEDITR	92	Modified System RPL "InputLine"	Scotty Thompson
SEDITR.DOC	646	... SEDITR documentation	
VACCINE	199	"Michigan Virus" Detector & Remover	Brian Maguire
VACCINE.DOC	5118	... VACCINE documentation & source code	

Directory of HORN8:HP - Goodies From Hewlett Packard Company

Filename.ext	Bytes	Description	Author(s)
APDIR	13713	... APPT subroutine	
APDIR.DOC	65	... see APPT.DOC for full documentation	
APPT	124	Another Daytimer/Scheduler/Time Manager	Hewlett Packard
APPT.DOC	5211	... APPT & APDIR documentation	
CALCULUS	6990	"Exploring Calculus" for Calc Students	Dennis York
CALCULUS.DOC	6535	... CALCULUS documentation	
CLK	6877	Kicks Clock Daily to Keep it Accurate	Hewlett Packard
CLK.DOC	9173	... CLK documentation	
EPSPRINT.DOC	5012	... EPSPRINT.LIB documentation	
EPSPRINT.LIB	1229	Print Graphics Directly to Epson Printer	Hewlett Packard
EZPLOT	11490	Fancy Replacement for PLOT Menu	Diana Bryne
EZPLOT.DOC	7425	... EZPLOT documentation	
GROB2TIF.DOC	1400	... GROB2TIF.EXE documentation	
GROB2TIF.EXE	3177	Converts HP grob to PC graphic file	Hewlett Packard
HAMILTON	1855	Hamiltonian Method for Geodesics	Charlie Patton
HAMILTON.DOC	9646	... HAMILTON documentation	
HAMILTON.SRC	1900	... HAMILTON source code	
INPRT	865	Input IR Printout from HP28, 41, etc.	Hewlett Packard
INPRT.DOC	2776	... INPRT documentation	
PCLPRINT.DOC	6020	... PCLPRINT.LIB documentation	
PCLPRINT.LIB	1136	Print Graphics Directly to LaserJet etc.	Hewlett Packard
STPWATCH.DOC	3923	... STPWATCH.LIB documentation	
STPWATCH.LIB	2831	100-Hour Stopwatch with splits	Hewlett Packard
SUITE3D4	10413	3D Graphics Package, Version 4	Charlie Patton
SUITE3D4.DOC	22981	... SUITE3D4 documentation	
SUITE3D4.SRC	14235	... SUITE3D4 source code	
USAG	1401	"Help" Program, with Stack Diagrams	Hewlett Packard
USAG.DOC	3832	... USAG documentation	

Directory of HORN8:MATH - Mathematical Utilities

Filename.ext	Bytes	Description	Author(s)
ARIT.DOC	40	... see POLYLIB.DOC for full details	Mika Heiskanen
ARIT.LIB	5224	Algebraic Utilities	
BASECALC	1633	Infinite Base Calculator + fractions	Ian Matthew Smith
BASECALC.DOC	4713	... BASECALC documentation	
BASECALC.SRC	2566	... BASECALC source code	
DEQ	2709	Another Differential Equation solver	Frank Plate
DEQ.DOC	7307	... DEQ documentation + examples	
DEQ.SRC	7340	... DEQ source code + comments	
FCTR.DOC	2982	... FCTR.LIB documentation	Klaus Kalb, Jurjen Bos
FCTR.LIB	3287	Prime Factorizer (subset of NTL2.LIB)	
POLYLIB.DOC	12590	... POLYLIB.LIB & ARIT.LIB documentation	Mika Heiskanen
POLYLIB.LIB	7277	Mathematician's Polynomial toolbox	
QD.DOC	674	Shortest Possible Quadratic Solver	Eric T Lane
QD.SRC	126	... QD source code	
SIMPLEX3	6000	Linear Programming with Simplex Method	Ricardo J Marimon
SIMPLEX3.DOC	10985	... SIMPLEX3 documentation	
SQPQ	210	Complete Continued Fraction of Sqrt(n)	Joseph K Horn
SQPQ.DOC	1488	... SQPQ documentation	
WEIGHT2	202	Better Weighted MEAN and SDEV	Joseph K Horn
WEIGHT2.DOC	3763	... WEIGHT2 documentation	
WEIGHT2.SRC	483	... WEIGHT2 source code	

Directory of HORN8:POSTINGS - Text-only Articles from HP's BBS

Filename.ext	Bytes	Description	Author(s)
BATTS.DOC	2863	Ether Wind Kills HP 48 Batteries	Joseph K Horn
CHANGES.DOC	3704	Rev E <=> Rev J Entry Point Change Table	Joseph K Horn
CIRCLE.DOC	767	Documentation for CIRCLE on GD7/France	Douglas R Cannon
EXPAND.DOC	1573	Sys-RPL 'EXPAND' command explained	Joseph K Horn
FLAGS.DOC	1438	What Are User Flags Good For?	Greg Sanker
GATEWAY.DOC	628	Beware: GATEWAY crashes Rev J	??
HPCVBBS.DOC	1249	HP Calculator User's Bulletin Board	Joseph K Horn
KANGAROO.DOC	1841	More Snippits from HP-75 Internal Docs	"Roo-man and Joey" (HP)
LOOP.DOC	1684	Hint About Shrinking & Speeding Up Loops	Steve VanDevender
OPENITUP.DOC	9399	How to Take Your HP 48 Apart	Paul Smith
PARENBUG.DOC	897	Strange Parentheses "bug"	Chris Holsapple
REPLACE.DOC	1686	Sys-RPL 'REPLACE' command explained	Joseph K Horn
RPL.DOC	8380	Exactly What is RPL, Anyway?	Joseph K Horn
SELFMOD.DOC	774	How to Put Self-Mod Code into Libraries	Detlef Mueller
WHATSUP.DOC	353	How to Detect the Presence of Bugs	Elmer Fudd

Directory of HORN8:PROGRAMR - Goodies for Heavy HP 48 Programmers

Filename.ext	Bytes	Description	Author(s)
BOGOSORT	117	Worst Possible Algorithm to Sort a List	Joseph K Horn
BOGOSORT.DOC	2469	... BOGOSORT raison d'être, et cetera	
DIRVARS	294	Fast Replacement for the VARS Command	Scotty Thompson
DIRVARS.DOC	1154	... DIRVARS documentation	
INSERT	63	Insert Object into List	Joseph K Horn
INSERT.DOC	2174	... INSERT documentation	
LCASE	90	... Example of Lowercase Alpha Toggling	Joseph K Horn
LCASE.DOC	1037	How to Toggle the Alpha Lowercase Flag	
MISC1	445	Miscellaneous Programmers' Utilities	Brian Maguire
MISC1.DOC	4004	... MISC1 documentation	
OBJVIEW	1155	Full Object-Type Table on One Screen	Stephen J Thomas
OBJVIEW.DOC	820	... OBJVIEW documentation	
SORTLN	96	Quickly Sorts Lists of Real Numbers	Joseph K Horn
SORTLN.DOC	567	... SORTLN documentation	
SORTLN.RPL	346	... SORTLN source code	Joseph K Horn
SORTLS	98	Quickly Alphabetizes Lists of Strings	
SORTLS.DOC	571	... SSRT documentation	Joseph K Horn
SORTLS.RPL	427	... SSRT source code	
STAYON	46	Low-Power Keywait disables Timeout	Brian Maguire
STAYON.DOC	3062	... STAYON documentation	
STAYON.RPL	222	... STAYON source code	Brian Maguire
UITL.DOC	30150	... UITL.LIB documentation	
UITL.LIB	7300	Powerful User Interface Construction Set	Brian Maguire
XMENU	871	Better 4-Level Menu Display	
XMENU.DOC	3837	... XMENU documentation	Brian Maguire
XMENU.S	10875	... XMENU source code + comments	
XPNDR	521	Original 4-Level Menu Display	Conan J Fee
XPNDR.DOC	5317	... XPNDR documentation	

Directory of HORN8:TUNES - Quaint Melodies & Sound Effects

Filename.ext	Bytes	Description	Author(s)
MUSIC48.DOC	2462	... MUSIC48 documentation	William R Brassfield
MUSIC48.RFD	8718	Classical Music & Sound Effects	
ROBIN.DOC	485	... ROBIN.RFD documentation	Roland Davis
ROBIN.RFD	2516	Robin Hood movie Theme Song	
SND	3051	Sound Effects in Machine Language	Joseph James Ervin
SND.DOC	1102	... SND documentation	
SOUNDER.DIR	1051	Original SOUNDER with a few examples	Joseph James Ervin
SOUNDER.DOC	2630	... SOUNDER.DIR documentation	
SOUNDKIT.LIB	1270	New SOUNDER Sound Effects Code Maker	Fatri Mohamed
SOUNDER	599	... SoundKit's new version of SOUNDER	
SOUNDKIT.DIR	831	... SOUNDKIT.LIB examples	Fatri Mohamed
SOUNDKIT.DOC	2740	... SOUNDKIT.LIB & SOUNDER documentation	
SOUNDS	1080	Sound Effects from the Diamonds game	Douglas R Cannon
SOUNDS.DOC	1886	... SOUNDS documentation	
TOONS	4297	William Tell (Lone Ranger) & Friends	Joseph K Horn
TOONS.DOC	1963	... TOONS documentation	
TRICORDR	158	"He's Dead, Jim!" Star Trek sound effect	Steven D Ourada
TRICORDR.DOC	3407	... TRICORDR documentation + source code	
TUNE	7398	Music Compressor & Player w/ Examples	Brian Maguire
TUNE.DOC	7082	... TUNE documentation	
YOW	1007	Simultaneous-Frequency ML Sound Effects	Joseph K Horn
YOW.DOC	1933	... YOW documentation	

Directory of HORN8:UTILS - Heavy Utilities for HP 48 Power Users

Filename.ext	Bytes	Description	Author(s)
CHKIT.DOC	3362	... CHKIT.LIB documentation	
CHKIT.LIB	642	Checks Objects for Rev J Compatibility	Detlef Mueller
ESTR	454	Calculates the Date of Easter, Any Year	James Gentles
ESTR.DOC	2536	... ESTR documentation + source code	
FATCAL.DOC	1494	... FATCAL.LIB documentation	
FATCAL.LIB	1149	Fast & Handsome Calendar Month Displayer	Fatri Mohamed
FIXIT	619	Repairs "HHP48-" Bad Downloads	Joe Horn, Mika Heiskanen
FIXIT.DOC	3651	... FIXIT documentation + examples	
HTRIM	118	HOME Directory Variable Hider	Simone Rapisarda
HTRIM.DOC	6425	... HTRIM documentation + source code	
MEMVIEW	371	Better Free Memory Viewer	Daniel Kirkland
MEMVIEW.DOC	653	... MEMVIEW documentation	
NOTECARD.DOC	4065	... NOTECARD.EXE documentation	
NOTECARD.EXE	7256	Converts DOC files into HP48 programs	Robert M Steuer
PATCH	83	Matrix Writer bugfix	Flavio Casetta
PATCH.DOC	4520	... PATCH documentation	
RF121.DOC	2991	... RF121.LIB documentation	
RF121.LIB	2087	Famous RF Object Packer in Library Form	Chuck Renner, L Vieweg
RF20	2095	New, Safer RF with CRC	
RF20.DOC	257	... RF20 documentation	Lutz Vieweg
STKD.DOC	2182	... STKD.LIB documentation	
STKD.LIB	1044	Very Fast Stack Display w/ 5 & 7 levels	Rick Grevelle
TASC.C	9316	... TASC.EXE source code	
TASC.DOC	2799	... TASC.EXE documentation	
TASC.EXE	10350	ASC-format Converter, version 3	Jonathan T Higa
USND	764	48-to-48 IR Transfer at 19200 Baud!	Daniel Kirkland
USND.DOC	4841	... USND documentation	

Directory of HORN8:WORK - Real-World, Useful, Non-Silly Stuff

Filename.ext	Bytes	Description	Author(s)
BEEPER	206	... used by ETA	
BEEPER.DOC	47	... BEEPER documentation	
CELDNAV	8771	Celestial Navigation & DR Plotting	Robert Irving
CELDNAV.DOC	6001	... CELDNAV documentation	
ETA	981	Trip Calculator for drivers	Abie Baker
ETA.DOC	8898	... ETA documentation	
GCIRCLE	1860	Perfect Sphere Great Circle calculator	William R Brassfield
GCIRCLE.DOC	2996	... GCIRCLE documentation	
GCIRNAV	8713	Another Great Circle Navigation Tool	Robert Irving
GCIRNAV.DOC	4843	... GCIRNAV documentation	
MPHDIR	7184	... used by ETA	
MPHDIR.DOC	48	... MPHDIR documentation	
PRES	61	Extended Accuracy Parallel Resistance	Joseph K Horn
PRES.DOC	4271	... PRES documentation + examples	

Please read all of this little document before bombarding me with questions answered here. Thank you.

This is Joe Horn's personal collection of favorite HP 48 goodies, disk #8. 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. Pages 2-7 of this document is the complete listing of all the files and a brief description of each. 4DOS was used to "attach" these descriptions onto every file and subdirectory on the disk; if you use 4DOS, you will enjoy using it with the Goodies Disks. For a compact directory listing, print the FILEINFO.SRC file.

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

BINARIES	
*.	(no extension) = raw binary downloadable HP 48 object.
*.LIB	HP 48 Library in binary format (load, store in a port, & purge).
*.RFD	HP 48 Directory containing auto-uncompressing objects.
*.TAB	Table (special case: RPL.TAB only)
*.DIR	Some .DIR files are binary directory objects.
DOCUMENTATION	
*.DOC	Documentation for HP 48 file, or an article in plain ASCII text.
*.1ST	Special case for README.1ST, a doc in the DETLEF directory.
*.IDX	Special case for GD8.IDX, the Goodies Disks 1-8 Index File.
*.ION	Special case for DESCRIPT.ION, the file descriptions for 4DOS.
SOURCE CODE	
*.SRC	HP 48 Source Code (User RPL) in downloadable ASCII format.
*.S	HP 48 Source Code (System RPL / Assembly) in HP RPLCOMP format.
*.RPL	HP 48 Source Code (System RPL / Assembly) in (S)RPL.LIB format.
*.C	Source Code in the "C" Language (for creating *.EXE files)
*.DIR	Some .DIR files are the source code for directory objects.
PC ONLY	
*.BAT	IBM PC batch file; not for HP 48, Macintosh, Amiga, etc.
*.BTM	IBM PC batch file for users of 4DOS only. (see note below)
*.COM	IBM PC executable; not for HP 48, Macintosh, Amiga, etc.
*.EXE	IBM PC executable; not for HP 48, Macintosh, Amiga, etc.

Note: 4DOS is not the same as DOS 4; 4DOS is a COMMAND.COM shareware substitute. It is a registered trademark of JP Software, Inc. It makes DOS act the way you've always wanted it to. If you don't have it, get it! (See SEND.BAT on this disk for address & phone number of JP Software). On the other hand, MS DOS version 4 (called DOS 4) sucks. If you have it, upgrade to DOS 5 or 6 immediately! NDOS is a dehydrated version of 4DOS that comes with Norton Utilities version 6, and shows the same file descriptions as 4DOS. It's better than nothing.

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. To copy a file into the HP 48, you MUST specify the entire name; e.g. "FRED.LIB".

All 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. If you know who wrote a file "by ?", please let me know so that proper credit may be given. See CREDITS.DOC for credit updates.

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

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

For EduCALC Goodies Disk Customer Support, see SUPPORT.DOC on this disk.

- - - Joseph K. Horn

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AUTOMATIC PC-TO-HP48 FILE TRANSFER

The SEND utility requires 4DOS. If you don't have 4DOS, you can't use this nifty little utility. Instead, use MS-Kermit as per its instructions.

To use the SEND utility: First, press blue-PRG on your HP 48 to start SERVER mode.

Type SEND on your PC. A menu of the disk's subdirectories will be displayed. Use the arrow keys to highlight the desired subdirectory, and press ENTER to select it.

Then a menu of that subdirectory's downloadable files will be displayed, complete with a brief description of each. Use the arrow keys to highlight the desired file, and press ENTER to send the file to the HP48. (Note: Pressing the space bar instead of ENTER allows you to mark multiple files, which are then sent in a batch when you press ENTER).

When transmission is complete, press ON (ATTN) on the HP48 to exit SERVER mode. In case of trouble, see SEND.DOC on this disk for complete details.

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