

EduCALC TECHNICAL NOTES

TN 36

27953 CABOT ROAD LAGUNA NIGUEL, CA 92677

HP 48 GOODIES DISC # 9 DESCRIPTION (TN 36)

This is the first Goodies Disk compatible with HP 48 G Series machines. Because of the changes in G memory management - due to bank switching of large address spaces - some HP 48 S Series programs will not run on G Series machines. User code programs should run on either series. Assembly Language, also called Machine Code, and System RPL programs on previous Goodies Disks may not run on G Series machines. If you use an HP 48 G Series machine you must be prepared for machine lock up or memory loss with some assembly or System RPL programs on GD 1 thru GD 8.

Goodies Disk Nine provides compatibility information with a two character code. S series only is S-, G series only is -G, S & G is SG as is shown in the documentation. There should be no series use confusion from GD 9 forward. People have asked Joseph if he is going to review previous Goodies Disks to provide compatibility information. His answer: "NO!" If someone has such information - we need compatibility information on the complete disk - be sure to forward to Joseph. He tested every program on GD 9 on both series.

Goodies Disk 10 is being worked on. This is NOT an announcement! I mention this only to inform Goodies Disk users that Joseph has not burned out - yet. As he has said many times, when it is no longer fun he will stop. Everyone who enjoys the Goodies Disks will want to encourage Joseph to continue the thousands of hours of work - a true labor of love - that are required to produce these disks. Due to a recent move Joseph cannot be reached by phone. This should change by 1995.

The big change on GD 9 is the documentation. See the bottom of page four of this Technical Note. If you are reading about the Goodies Disk concept for the first time it is VITAL that you understand how the idea works. The Goodies Disks are provided for you to explore. As much information as possible is provided on each disk. Technical support or explanations of how or why a program works cannot be provided by anyone associated the Godies Disks. That includes Hewlett Packard, EduCALC, Joseph Horn, Richard Nelson, or any of the many, many authors of programs, articles, etc. whose work appear on the disks.

Some Goodies Disks include Share Ware. This means that if you regularly use a Share Ware program you should send the small fee requested by the author. Quality software requires many hours of difficult, concentrated work. Show your appreciation and send a check. We all thank EduCALC for providing a means of making this software available to the public. Thank you Jim Carter!

X < > Y Richard Nelson

EduCALC Goodies Disk #9

HP 48 Software — 4 January 1994

Collected and annotated by Joseph K. Horn
1,163,592 bytes in 152 files on volume HORN9

ROOT DIRECTORY

Directory Description

ANIMS	Animated Video Displays (not games)
FRANCE	More Goodies from France
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
RPL48	System RPL/ML Development Tools rev 2
UTILS	Heavy Utilities for HP 48 Power Users

Filename.ext	Bytes	Description	-Author(s)
IREADME!.TXT	45840	DOC for GD9 root directory files	-jkh-
##	4903	Table of file checksums used by GDOK	
ANIMS.TXT	4881	DOC for GD9 ANIMS subdirectory files	
BRIK.EXE	11618	File checksum generator & verifier	-Rahul Dhesi
DESCRIPT.ION	1416	File descriptions for 4DOS/NDOS users	-jkh-
DOC.EXE	17238	Documentation Viewer for all GD9 files	-Strange Software Ltd
FETCH.BAT	34	Global Goodies Disks File Finder	-jkh-
FRANCE.TXT	15031	DOC for GD9 FRANCE subdirectory files	
GD9.IDX	55213	Global Goodies Disks Index #1 - #9	-SJ Thomas & JK Horn
GDOK.BAT	141	GD9 file integrity validator	-jkh-
GREP.COM	7029	Quick Text Searcher; like UNIX's GREP	-Borland International
HACKER.TXT	17047	DOC for GD9 HACKER subdirectory files	
HP.TXT	46485	DOC for GD9 HP subdirectory files	
LIST.COM	9209	Famous shareware file viewer	-Vern Buerg
MATH.TXT	107998	DOC for GD9 MATH subdirectory files	
MLDL106.TXT	62581	DOC for MLDL106.LIB	-Jan Brittenson
SEND.BAT	291	Condolence message to non-4DOS users	-jkh-
SEND.BTM	126	Automated Disk-to-48 for 4DOS users	-jkh-
UTILS.TXT	79533	DOC for GD9 UTILS subdirectory files	

HP DIRECTORY

Goodies from Hewlett Packard Company

Filename.ext	Bytes	Description	-Author
EPSPRINT.LIB	1234	Epson Graphic Print (SX/GX)	-Hewlett Packard
FXRECV	99	G/GX bugfix for XRECV limitations	-Hewlett Packard
INPRT	877	Receive IR from other HP calcs (SX/GX)	-Hewlett Packard
OBJFIX	160	Repair Bad Uploads in "HHPHP-" form	-Hewlett Packard
PCLPRINT.LIB	1141	LaserJet/DeskJet Graphic Print (SX/GX)	-Hewlett Packard
PTLIB.LIB	28082	HP's Periodic Table (for G/GX only)	-Hewlett Packard
STPWATCH.LIB	2833	Stopwatch Library (SX/GX)	-Hewlett Packard
USAG	1712	Gives help for native & lib commands	-Hewlett Packard

POSTINGS DIRECTORY

Text-only Articles from HP's BBS

Filename.ext	Bytes	Description	-Author(s)
BANK.DOC	4703	Bank Switching RAM Cards: TDS vs. HP	-Joseph K Horn
BATTS2.DOC	5000	Too Many 1-Bits Causes Battery Drain!	-Steve VanDevender
DISPATCH.DOC	1228	Caution: CKn&Dispatch is pickyl	-William C Wickes
DRAIN2.DOC	4698	New Battery Drain Table by Operation	-Douglas R Cannon
ENTRYPTS.DOC	4115	What is an "Entry Point" anyhow?	-Joseph K Horn
GAMMA.DOC	1514	Intro to the GAMMA function	-Eric Postpischil
KANGAROO.DOC	2567	The HP-75 Dynamic Duo's Last Hurrah	-"Roo-man and Joey" (HP)
LASTARG.DOC	1298	Recover from PURGE, STO, and shift-STO	-Joseph K Horn
LIBEVAL.DOC	3807	Intro to G-Series' new LIBEVAL command	-Joseph K Horn
LISARIF.DOC	1143	Life Is Short And ROM Is Full	-William C Wickes
MAKEROM.DOC	3338	Bug in HP's MAKEROM.EXE on GD4	-Mika Heiskanen
POINTERS.DOC	614	CPU register use in RPL/ML	-??
PORTPATH.DOC	1373	GX Bug in :Port:Path RCL/EVAL	-Joseph K Horn
RAND.DOC	2375	RAND function's algorithm explained	-VanDevender & Mueller
RECOVER.DOC	2828	How "Recover Memory?" Works	-Wickes & Patton
SIGMABUG.DOC	2168	STAT EDIT wipes memory on revs K-P	-Nelson & Horn
SPEEDUP.DOC	690	Note about G/GX internal clockspeed	-Preston Brown
SRPLGROB.DOC	6071	How to use GROBs in SRPL & ML programs	-Richard Steventon
TEAM48G.DOC	1673	GX Hidden Message: Design Team's Names	-Blair Sandberg
TOOSLOW.DOC	1785	Turn Off USER Mode & Speed Up Keyboard	-Joseph K Horn
UNITS.DOC	3761	When Do Units Combine, & When Not?	-HP Customer Support

UTILS DIRECTORY

Heavy Utilities for HP 48 Power Users

Filename.ext	Bytes	Description	-Author(s)
BEAN11.LIB	12429	Financial Transaction log & report	-Sanjiv Bawa
CGENERIC	235	... used by FONEMAN	-Jeffrey M Krontz
COMPRESS.LIB	1804	Newest Object Compression program	-Rick Grevelle
CROLDX	250	... used by FONEMAN	-Jeffrey M Krontz
DBASE	4663	G/GX Database	-Matthew Todd Eckrich
FALSECLR	580	Improved "False Clear" in clever shell	-Jeffrey M Krontz
FALSECLR.S	9024	... FALSECLR source code + comments	-Jeffrey M Krontz
FONEMAN.LIB	3478	Another Phone Book & Personal Database	-Jeffrey M Krontz
GPRT	109	Graphical Print of Text on HP 82240A	-Joseph K Horn
INFO48.LIB	5576	S/SX Memory Browser	-A D J Felson
LASER66.COM	45	Sets HP LaserJet to 66 Lines Per Page	-??
MEMU	582	S/SX Memory Usage Gauge	-Kevin RuLand
PCT.LIB	7813	Port Control Tools: Library Juggler	-DEYLONE & HPREG (??)
PIM100	5428	Another Phone Book & Personal Database	-Jason Christopher Emery
RFP	1103	G/GX version, RFP object compressor	-Lutz Vieweg
RFU	332	G/GX version, RFP object decompressor	-Lutz Vieweg
SCH48V20.LIB	4863	Scheduler (Daytimer/BOSS/Wizard clone)	-William J Levenson
SMTK.LIB	5683	SmartKeys version 1.59 (S/SX only)	-Simone A Rapisarda
SMTK.EXE	19027	... SMTK documentation, compressed	-Simone A Rapisarda
TELE32.LIB	4481	Another Telephone Directory, v 3.2	-David Bal
TIMEKEEP	821	Clock Accuracy auto-adjuster	-Eric Postpischil
TIMEKEEP.SRC	1092	... TIMEKEEP source code	-Eric Postpischil
TOSTW	43	Like ->STR but w/ lines 27-chars wide	-Joseph K Horn
XYMODEM2.LIB	3558	XModem/YModem, version 2.2	-M Alou & E Westphal

HACKER DIRECTORY

Goodies for HP 48 Hackers (SRPL & ML)

Filename.ext	Bytes	Description	-Author(s)
BREAKLIB.LIB	2765	Another Library-to-Directory Converter	-??
CHKRX	254	Check RX Pin of Serial Port	-Robert Sanders
CHKRX.M	103	... CHKRX command file for SLOAD	-Robert Sanders
CHKRX.S	8367	... CHKRX source file for RPLCOMP	-Robert Sanders
CLONEME	80	Program that Puts Itself on the Stack!	-Ted Beers
DUMP	144	ROM-to-PC dump, for Voyager setup	-Rick Grevelle
LIBMAKER.LIB	5825	Another Directory-to-Library Converter	-??
MLDL106A.LIB	10771	ML Developer's Lab 1.06 for RAM	-Jan Brittenson
MLDL106B.LIB	10771	ML Developer's Lab 1.06 for ROM	-Jan Brittenson
ROSETTA.DOC	20068	HP <--> AG Mnemonics Translation Table	-Horn & Brittenson

MATH DIRECTORY

Mathematical Utilities

Filename.ext	Bytes	Description	-Author
AREA	687	Area of Irregular Polygons	-Dewayne Cushman
CHEBY	211	Chebyshev Polynomial Coefficients	-Ron Zukerman
CUFIT	979	Statistical Best Fit to Polynomial	-Joe Muccillo
DIGI24	2974	Double-Precision (24 digit) routines	-Rodger Rosenbaum
DIGI24.SRC	4189	... DIGI24 source code	-Rodger Rosenbaum
ERRF	130	The Error Functions, ERF and ERFC	-Rudolf von Steiger
GEOMETRY.LIB	6262	Surveying/Engineering geometry toolbox	-Joe Muccillo
LAPLACE	6127	Laplace Transforms	-John Meissner
LAPLACE.SRC	5458	... LAPLACE source code	-John Meissner
MATRIX.LIB	2114	Ten Matrix Utilities	-Joe Muccillo
NTL2.LIB	12170	The Number Theory Library	-Klaus Kalb
NUM.EXE	18205	... NUM.LIB documentation, compressed	-Philippe Colbach
NUM.LIB	20601	The Heavy Math Library	-Philippe Colbach
PFIT	713	Exact Fit to Polynomial, auto plotting	-Joseph K Horn
PFIT.SRC	1730	... PFIT source code + comments	-Joseph K Horn
POLY46SX.LIB	5431	The POLY library for S/SX, ver 4.6	-Carlos Ferraro
QRAD	121	Irrational --> Quotient of Radicals	-Joseph K Horn
QRAD.SRC	303	... QRAD source code	-Joseph K Horn
SIMPLEX2.LIB	3714	Improved Simplex Method library	-Kevin Ruland
SSQR	246	Integer --> Simplified Square Root	-Joseph K Horn
SSQR.SRC	658	... SSQR source code	-Joseph K Horn

IMPORTANT NOTE ABOUT DOCUMENTATION

Goodies Disks 1-8 had no built-in mechanism for viewing the documentation files; you had to TYPE them or load them into a text editor or word processor. GD9 is the first Goodies Disk to have a built-in documentation viewing program. All you have to do is type the word DOC at the DOS prompt on your computer, and the DOC program will let you browse all the documents for the programs on the disk. If you only want to see the document for a particular program, type DOC and the name of the file; for example, to see the document for the USAG program, type DOC USAG. If you know the name of the program's directory, type it after DOC for faster access; for example, DOC HP USAG. For complete details about the DOC program, type DOC DOC.

Vern Buerg's LIST program is also included for easy viewing of *any* file on the disk.

ANIMS DIRECTORY

Animated Video Programs (not games)

Filename.ext	Bytes	Description	-Author(s)
BACKFLIP	4854	On-Stack Movie of Guy Doing a Backflip	-Randall Elton Ding
BRAID	14087	Three Cylinders Twisted Together	-John G Stebbins
DEMO3D	1997	Spinning Cube w/ Pyramid Inside; cool!	-Larry & ETI
GUTS	579	Also looks like Brains, or a Worm Path	-Chris Campbell
HULA	11769	Real video frames of girl w/ hula hoop	-Erick Hammersmark
KNOT	14052	Torus bent into simple overhand knot	-John G Stebbins
USA	1326	Long May It Wave!	-Joseph K Horn

FRANCE DIRECTORY

More Goodies from France

Filename.ext	Bytes	Description	-Author
ABOUT.ICE	5064	About-screen for IceCube	-Lilian Pigallio
ARBRE	918	Directory Tree	-Lilian Pigallio
ARKANOID	3511	Hyper-Brickout	-Lilian Pigallio
ASTERIX	5631	Asterix Video Game	-Lilian Pigallio
CASTEL	7460	Castel Video Game	-Lilian Pigallio
CD	327	Game Menu & Launcher	-Lilian Pigallio
CHIMIE	7959	Periodic Table	-Lilian Pigallio
CONTRAST	401	Another Way to Set LCD Viewing Angle	-Lilian Pigallio
EDITOR.REP	3564	??	-Lilian Pigallio
ENDURO	2919	Enduro Video Game	-Lilian Pigallio
GAME	352	... used by CD	-Lilian Pigallio
ICE.ENT	20253	IceCube Game, entire version	-Lilian Pigallio
ICE.RED	16010	IceCube Game, reduced version	-Lilian Pigallio
INSTAL	2132	Telephone Directory w/ Password	-Lilian Pigallio
JACKPOT	3388	Jackpot Video Game	-Lilian Pigallio
KEYS.ICE	1451	... used by IceCube game	-Lilian Pigallio
MINEUR.REP	9161	??	-Lilian Pigallio
PLAY	189	... used by CD	-Lilian Pigallio
PYRAMID	2730	Pyramid video game	-Lilian Pigallio
RFU	325	Object Decompressor (used by games)	-Lilian Pigallio
RUNWAY2.ENT	14759	Runway 2 Game, entire version	-Lilian Pigallio
RUNWAY2.RED	6201	Runway 2 Game, reduced version	-Lilian Pigallio
RUNWAY2.TR	563	... gives Runway 2 unlimited credits!	-Lilian Pigallio
SCROLL	344	GROB viewer w/ diagonal scrolling	-Lilian Pigallio
VISU3.31	1495	Object Viewer	-Lilian Pigallio

RPL48 DIRECTORY

System RPL/ML Development Tools rev 2

Filename.ext	Bytes	Description	-Authors
CNLIB.DIR	1855	Warmstart Config Library source code	-Mueller & Hellstern
GENTAB.C	5705	ANSI C source for RPL.TAB generator	-Mueller & Hellstern
LIB.LIB	7751	Library Creator & Editor ver 2.0	-Mueller & Hellstern
README.1ST	5371	Overview of the whole DETLEF package	-Mueller & Hellstern
RPL-G.TAB	24854	Lookup Table for RPL.LIB	-Mueller & Hellstern
RPL.LIB	28384	System RPL Developer's Toolbox ver 5.0	-Mueller & Hellstern
RPL48.DOC	64245	... RPL.LIB & LIB.LIB documentation	-Mueller & Hellstern
RPLXMPL.DIR	16823	->RPL example	-Mueller & Hellstern

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