

EduCALC TECHNICAL NOTES

27953 CABOT ROAD LAGUNA NIGUEL, CA 92677

GOODIES DISC #3 DESCRIPTION

Goodies Disc 3 is best described as a continuation of Goodies Disc 1. It is a time ordered (with a few important items included ahead of their time) collection of programs. The two directories on the disc are HORN3 and MOVELEVEL. HORN3 is the main directory. It contains 213 files. MOVELEVEL contains 50 levels of play for the MOVE game (in HORN3).

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.

1. The Goodies Discs are HIGH DENSITY. You must use a 1.2 M Byte 5 1/4" drive or a 1.44 M Byte 3 1/2" 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 Disc's to four or five low density discs. For obvious reasons it is not practical 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 Horn, or HP with questions about files on the disc. Use the HP BBS if you MUST communicate with somebody about a specific topic.
3. The Goodies Discs provide the best, most sophisticated advanced programs and information available on the HP 48SX for the lowest possible cost. The hundreds of donated hours, love, enthusiasm, and dedication put into the Goodies Discs is priceless.
4. The Goodies Discs are for DOS machines. Apple (Mac) operating systems can not use these discs. There are radical differences that make "translating" these discs difficult. To date no one has offered a Mac version. If you are able to make these files useful to Mac users there are a few Mac owners who would appreciate the Goodies discs being available for Mac use. Start with Goodies #1. In order for EDUCALC to make Mac versions available we need to be able to offer ALL Goodies discs in Mac format. Who ever makes the conversions must be able to do the same for future Goodies discs as well as the existing first four.

A "Directory" listing of HORN3 follows.

Filename.ext	File Size	Date	Time	Description	Author(s)
!readme! doc	3,464	6-27-91	12:17p	HORN3 Disk Overview - Read Me First	-Joseph K. Horn
address	3,563	5-30-91	12:00a	Address Book (uses Tool Library)	-Dan Ciarniello
address doc	2,918	5-30-91	1:25p	... ADDRESS documentation	
airfoil	2,139	5-30-91	12:00a	Airfoil Plotter	-Matt Nelson
airfoil doc	3,970	5-30-91	12:00a	... AIRFOIL documentation	
airfoil src	6,700	5-30-91	12:00a	... AIRFOIL source code	
argcheck doc	1,774	5-30-91	12:00a	Clean RPL Argument Checking	-Joseph James Ervin
array doc	2,250	5-30-91	12:00a	How To Convert 2 Vectors -> 1 Array	-Brittenson, Rostamian, Burke
astronut	9,168	5-30-91	12:00a	Lunar Lander Simulation Game	-Kevin Jessup
astronut doc	3,666	5-30-91	12:00a	... ASTRONUT documentation	
astronut src	5,849	5-30-91	12:00a	... ASTRONUT source code + comments	
backall	1,597	5-30-91	12:00a	Backup Main Mem & Ports to Your PC	-Darryl Okahata
backall doc	4,877	5-30-91	12:00a	... BACKALL documentation	
backall src	2,898	5-30-91	12:00a	... BACKALL source code	
badnames doc	1,193	5-30-91	12:00a	How to Create Illegal Names	-Rick Grevelle
bits	120	5-30-91	12:00a	Fast HP-16C-style BITS function	-Jurjen NE Bos
bits doc	774	5-30-91	12:00a	... BITS documentation + source code	
blackjac	12,750	5-30-91	12:00a	BlackJack Card Game (aka "21")	-David Sprengle
blackjac doc	3,990	5-30-91	12:00a	... BLACKJAC documentation	
blackjac src	15,250	5-30-91	12:00a	... BLACKJAC source code	

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Filename.ext	File Size	Date	Time	Description	-Author(s)
blinky	2,091	5-30-91	12:00a	A "PacMan" style Video Game	-Hans Christian Egeberg
blinky asc	4,363	5-30-91	12:00a	... BLINKY in ASC form	
blinky doc	4,811	5-30-91	12:00a	... BLINKY documentation	
bonusrnd	195	5-30-91	12:00a	Bonus Round for Roborun game	-David Liu
bonusrnd doc	116	5-30-91	12:00a	... BONUSRND documentation	
booz exe	7,637	5-30-91	12:00a	Barebones ZOO Extractor	-Rahul Dhesi
booz doc	287	5-30-91	12:00a	... BOOZ documentation	
cardfull doc	1,623	5-30-91	12:00a	How To Write-Protect Your ROMs!	-Frank Wales
cflow	1,174	5-30-91	12:00a	Uniform Cash Flow	-Ted A Smith
cflow doc	1,684	5-30-91	12:00a	... CFLOW documentation	
cflow src	1,669	5-30-91	12:00a	... CFLOW source code	
changes txt	4,709	5-30-91	12:00a	Some differences between 48SX & 28S	-William C Wickes
chipall lib	5,673	5-30-91	12:00a	Video Game Collection library	-Ted A Smith
chipall doc	505	5-30-91	12:00a	... CHIPALL documentation	
clear doc	626	5-30-91	12:00a	Is CLEAR a Bad Thing?	-Joseph K. Horn
clk lib	4,402	5-30-91	12:00a	Beautiful Digital Clock + Dissolve	-Dave Marsh + Joe Ervin
clk doc	577	5-30-91	12:00a	... CLK documentation	
clock	1,464	5-30-91	12:00a	Another Analog Clock	-Jon Loschke
clock doc	412	5-30-91	12:00a	... CLOK documentation	
compact	3,449	5-30-91	12:00a	Linked Array utilities	-Gadiel Seroussi
compact asc	7,167	5-30-91	12:00a	... COMPACT in ASC form	
compact doc	4,928	5-30-91	12:00a	... COMPACT documentation	
cube	3,087	5-30-91	12:00a	Sort the Letter Tiles Game	-Paul Lancaster
cube doc	780	5-30-91	12:00a	... CUBE documentation	
cube src	4,225	5-30-91	12:00a	... CUBE source code	
cutebug doc	413	5-30-91	12:00a	A bug that creates System Binaries	-John Paul Morrison
d2f	279	5-30-91	12:00a	DEC2FRAC rewritten in "System RPL"	-Joseph K. Horn
d2f lst	4,137	6-13-91	11:47a	... D2F Voyager listing	
dasm lib	19,626	5-30-91	12:00a	HP-mnemonic Saturn Disassembler	-Jim Vaccaro
dasm doc	2,509	5-30-91	12:00a	... DASM documentation	
dec2frac	305	5-30-91	12:00a	Improved ->Q, Complete & Faster	-Joseph K. Horn
dec2frac doc	3,314	5-30-91	12:00a	... DEC2FRAC documentation	
dec2frac src	1,493	5-30-91	12:00a	... DEC2FRAC source code + comments	
diss	393	5-30-91	12:00a	Screen Dissolver, ver 0.2	-Joseph Ervin
diss asc	866	5-30-91	12:00a	... DISS in ASC format	
diss doc	2,959	5-30-91	12:00a	... DISS documentation	
dissdemo	6,129	5-30-91	12:00a	Cute Demo of Joe Ervin's DISS	-Joseph K. Horn et al.
dissdemo doc	759	5-30-91	12:00a	... DISSDEMO documentation	
dissdemo src	12,567	5-30-91	12:00a	... DISSDEMO source code + comments	
dlist	62	5-30-91	12:00a	Display List, up to 9 Strings, Fast	-Joseph K. Horn
dlist asc	510	5-30-91	12:00a	... DLIST in ASC format	
dragon gro	10,587	5-30-91	12:00a	Large GROB of a Warrior on a Dragon	-Sean Ahern
dragon doc	368	5-30-91	12:00a	... DRAGON.GRO documentation	
dragon src	21,174	5-30-91	12:00a	... DRAGON.GRO source code	
eigen	728	5-30-91	12:00a	Eigenvalue/vector Decomposition	-Ted A Smith
eigen doc	1,240	5-30-91	12:00a	... EIGEN documentation	
eigen src	1,492	5-30-91	12:00a	... EIGEN source code	
error	5,904	5-30-91	12:00a	Uncertainties Calculations	-Jay Kyle
error doc	2,227	5-30-91	12:00a	... ERROR documentation	
extract2 exe	30,663	5-30-91	12:00a	ZIP, ARC, & LZH File Extractor	-Freelance Programming
extract2 doc	2,396	5-30-91	12:00a	... EXTRACT2 documentation	-Joseph K. Horn
fact lib	504	5-30-91	12:00a	Fast & Accurate Complex Factorial	-Jurjen NE Bos
fact asc	1,110	5-30-91	12:00a	... FACT in ASC format	
fact doc	2,755	5-30-91	12:00a	... FACT documentation	
faq doc	47,282	5-30-91	12:00a	Frequently Asked Questions + Answers	-Darryl Okahata
fft	1,044	5-30-91	12:00a	Very Fast Fourier Transform	-Jurjen NE Bos
fft doc	906	5-30-91	12:00a	... FFT documentation	
fft src	2,216	5-30-91	12:00a	... FFT source code + comments	
fileinfo fi	16,615	6-27-91	12:25p	File comments for Norton FI owners	-Joseph K. Horn
fileinfo doc	247	5-30-91	12:00a	... FILEINFO documentation	
fileinfo src	11,690	6-27-91	12:26p	... FILEINFO in printable text form	
frac	228	5-30-91	12:00a	Slow but Complete version of NEW2Q	-Juergen Koslowski
frac doc	1,779	5-30-91	12:00a	... FRAC documentation	
frac src	325	5-30-91	12:00a	... FRAC source code	
fractals	9,061	5-30-91	12:00a	Mandelbrot Generator + Sample Pix	-Dan Ciarniello
fractals doc	1,929	5-30-91	12:00a	... FRACTALS documentation	
fractals src	24,888	5-30-91	12:00a	... FRACTALS source code + comments	
gateway lib	1,777	6-13-91	11:56a	Power-On Password Security System	-Erik Bryntse
gateway asc	3,754	5-30-91	12:00a	... GATEWAY in ASC form	
gateway doc	4,458	5-30-91	12:00a	... GATEWAY documentation	
go doc	1,039	5-30-91	12:00a	Commercial "Go" Game Announcement	-Robert F. Stellingwerf
goose doc	1,574	5-30-91	12:00a	The Cybernetic Mother Goose	-Lincoln Spector
gsel	756	5-30-91	12:00a	Goal Seeking Engine data partitioner	-Jeff Duncombe
gsel asc	1,603	5-30-91	12:00a	... GSE1 in ASC form	
gse1 doc	8,148	5-30-91	12:00a	... GSE1 documentation	

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Filename.ext	File Size	Date	Time	Description	Author(s)
hackit lib	2,720	6-26-91	9:29p	48 Hacker's toolbox	-Rick Grevelle
hackit asc	5,663	6-27-91	3:57a	... HACKIT in ASC form	
hackit doc	27,559	6-27-91	3:58a	... HACKIT documentation	
iferr lib	442	5-30-91	12:00a	Improved (Ver.B) Bulletproof	-William C. Wickes
iferr asc	963	5-30-91	12:00a	... IFERR in ASC format	
iferr txt	7,659	5-30-91	12:00a	... IFERR documentation	
imagunit txt	1,561	5-30-91	12:00a	Q&A About Imaginary Units	-Bill Gribble / Bill Wickes
indef	81	5-30-91	12:00a	Indefinite Integral Routine	-Michael Andrew Lowry
indef src	335	5-30-91	12:00a	... INDEF source code + comments	
iterate doc	761	5-30-91	12:00a	Note about "Iterate Loop" in Voyager-Derek S. Nickel	
joust	2,367	6-09-91	11:23p	"Joust" Arcade Video Game, version 2-Erin S. Catto	
joust asc	4,936	6-05-91	11:35p	... JOUST in ASC format	
joust doc	4,629	6-27-91	4:02a	... JOUST documentation	
julie doc	754	5-30-91	12:00a	On-line Reverie	-Derek Nickel / Pete Ashdown
kangaroo txt	998	5-30-91	12:00a	More from HP-75 Internal Docs	-"Roo-man and Joey" (HP)
lastx	74	5-30-91	12:00a	HP-41-style LASTX for the HP 48	-Darryl Okahata
lastx doc	711	5-30-91	12:00a	... LASTX documentation	
lastx src	164	5-30-91	12:00a	... LASTX source code	
memcards doc	8,025	5-30-91	12:00a	How CMT RAM Cards Differ from HP's	-Steven J Thomas & CMT
memgraph	1,049	5-30-91	12:00a	Fast Graph of Main Memory Available	-Bill Menees
memgraph doc	976	5-30-91	12:00a	... MEMGRAPH documentation	
memgraph src	1,208	5-30-91	12:00a	... MEMGRAPH source code	
mldl lib	6,938	5-30-91	12:00a	Machine Language Development Library-Jan Brittenson	
mldl doc	14,914	6-27-91	4:08a	... ML DL documentation	
modebrow	2,635	5-30-91	12:00a	Mode Browser	-Bill Wickes
modebrow asc	5,469	5-30-91	12:00a	... MODEBROW in ASC form	
modebrow txt	1,413	5-30-91	12:00a	... MODEBROW documentation	
move	7,078	5-30-91	12:00a	"Box Jockey" / "Sokoban" Video Game	-Gilles Kohl
move doc	6,718	5-30-91	12:00a	... MOVE documentation	
movelevl doc	149	5-30-91	12:00a	... a note about MOVELEV	
mskermit ini	46	6-27-91	4:10a	Kermit Initialization File	
mskermit doc	805	6-27-91	4:14a	... MSKERMIT documentation	
nav4	19,382	5-30-91	12:00a	Celestial Navigation, version 4.2	-Tom Metcalf
nav4 doc	21,941	5-30-91	12:00a	... NAV4 documentation	
nav4 src	21,844	5-30-91	12:00a	... NAV4 source code	
new2q	624	5-30-91	12:00a	Hybrid of DEC2FRAC and ->Q	-HP 48 Design Team
new2q src	2,041	5-30-91	12:00a	... NEW2Q source code + comments	
new2q txt	2,341	5-30-91	12:00a	... NEW2Q documentation	
nyquist	377	5-30-91	12:00a	Nyquist Plotter	-Raymond Wong
nyquist doc	696	5-30-91	12:00a	... NYQUIST Documentation	
nyquist src	957	5-30-91	12:00a	... NYQUIST source code + comments	
pbk	2,072	5-30-91	12:00a	Phone Book utility (uses ToolKit)	-Robert Noe
pbk doc	3,140	5-30-91	12:00a	... PBK documentation	
pbk src	2,738	5-30-91	12:00a	... PBK source code	
piper	1,841	5-30-91	12:00a	H. Piper!, a Super-CHIP Video Game	-Paul Raines
piper asc	3,854	5-30-91	12:00a	... PIPER in ASC form	
piper doc	9,889	5-30-91	12:00a	... PIPER documentation	
polygons	1,913	5-30-91	12:00a	Regular Polygon Generator	-Bill Menees
polygons doc	1,051	5-30-91	12:00a	... POLYGONS documentation	
pow2	57	5-30-91	12:00a	Tests for Exact Powers of 2	-Joseph K. Horn
pow2 doc	672	5-30-91	12:00a	... POW2 documentation + challenge	
qfl	15,686	5-30-91	12:00a	Quest For Liela video game	-Paul Pankratz
qfl doc	3,708	5-30-91	12:00a	... QFL documentation	
qfl src	163	5-30-91	12:00a	... QFL source code	
radicals	1,738	5-30-91	12:00a	Radical Expression Simplifier	-Michael Andrew Lowry
radicals doc	661	5-30-91	12:00a	... RADICALS documentation	
radicals src	1,998	5-30-91	12:00a	... RADICALS source code	
ratpac	1,858	5-30-91	12:00a	Rational Number Package (directory)	-Ted A Smith
ratpac lib	2,656	5-30-91	12:00a	... RATPAC in library form	
ratpac doc	1,684	5-30-91	12:00a	... RATPAC documentation	
ratpac src	3,307	5-30-91	12:00a	... RATPAC source code (directory)	
reset doc	2,676	5-30-91	12:00a	Secret Reset Switch hidden inside!	-Frank Wales, Ray Depew, -jkh-
revf txt	1,283	5-30-91	12:00a	HP 48 Revision F ?? False Alarm !!	-Bill Wickes
ripple	8,864	5-30-91	12:00a	Awesome Jellyfish 3D Graphics Demo	-Sean Ahern
ripple asc	18,361	5-30-91	12:00a	... RIPPLE in ASC form	
ripple doc	819	5-30-91	12:00a	... RIPPLE documentation	
roborun doc	1,472	5-30-91	12:00a	ROBORUN video game, version 2.1	-David Liu
roborun2	23,018	5-30-91	12:00a	... ROBORUN, short version	
roboruns	16,799	5-30-91	12:00a	... ROBORUN2/S documentation	
rpl doc	13,792	5-30-91	12:00a	Answers about "System RPL" coding	-Jan Brittenson
rpl txt	913	5-30-91	12:00a	What "RPL" Really Stands For	-Bill Wickes
rpldevel txt	1,662	6-27-91	4:26a	HP "System RPL" Development Package	-Bill Wickes

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Filename.ext	File Size	Date	Time	Description	-Author(s)
saturn gro	1,138	5-30-91	12:00a	Digitized GROB of the planet Saturn	-Frank G. Baird
saturn doc	211	5-30-91	12:00a	... SATURN.GRO documentation	
saturn src	2,304	5-30-91	12:00a	... SATURN.GRO source code	
scatter doc	839	5-30-91	12:00a	Scatter Plots with Connected Points	-Jurjen NE Bos
schip	2,178	6-09-91	11:12p	Super-CHIP ver 1.1: A Better CHIP48	-Erik Bryntse
schip asc	4,533	6-27-91	4:03a	... SCHIP in ASC form	
schip doc	7,914	6-27-91	4:04a	... SCHIP documentation	
schipdmo	161	6-09-91	11:16p	Pole Position: A Super-CHIP Demo	-Erik Bryntse
schipdmo asc	396	6-27-91	4:15a	... SCHIPDMO in ASC form	
schipdmo doc	2,645	6-27-91	4:16a	... SCHIPDMO documentation	
spelckhr doc	802	5-30-91	12:00a	HP 48 Spell Checker? Almost!	-Tim Bobay
spkr	6,972	5-30-91	12:00a	Speaker Enclosure Designer Toolkit	-William K. McFadden
spkr doc	11,511	5-30-91	12:00a	... SPKR documentation	
spkr src	3,850	5-30-91	12:00a	... SPKR source code	
spline	2,120	5-30-91	12:00a	Piecewise Cubic Spline Generator	-Rouben Rostamian
spline doc	4,963	5-30-91	12:00a	... SPLINE documentation	
spline src	5,019	5-30-91	12:00a	... SPLINE source code + comments	
support doc	1,574	6-27-91	4:20a	EduCALC "Goodies" Customer Support	-Joseph K. Horn
tetris	2,712	5-30-91	12:00a	Tetris Game in Machine Language	-Per Konradsson
tetris asc	5,632	5-30-91	12:00a	... TETRIS in ASC form	
tetris doc	3,014	5-30-91	12:00a	... TETRIS documentation	
tetris3	8,268	5-30-91	12:00a	Feature-loaded version of Tetris	-Andrey Dolgachev
tetris3 doc	5,848	5-30-91	12:00a	... TETRIS3 documentation	
tetris3 src	10,361	5-30-91	12:00a	... TETRIS3 source code	
tetrisx	6,834	5-30-91	12:00a	Tetris with Best Graphics	-Jon Loschke
tetrisx doc	1,707	5-30-91	12:00a	... TETRISX documentation	
tetrisx src	7,943	5-30-91	12:00a	... TETRISX source code	
tif2grob exe	22,709	5-30-91	12:00a	PC Graphic to 48 GROB Converter	-Hewlett Packard
tif2grob doc	300	5-30-91	12:00a	... TIF2GROB "documentation"	
trap	298	5-30-91	12:00a	Sample Error Trap for IFERR.LIB	-Bill Wickes
trap doc	375	5-30-91	12:00a	... TRAP documentation	
trap src	487	5-30-91	12:00a	... TRAP source code	
truchet	1,604	5-30-91	12:00a	Random Wallpaper Pattern Generator	-Bill Menees
truchet doc	772	5-30-91	12:00a	... TRUCHET documentation	
truchet src	2,424	5-30-91	12:00a	... TRUCHET source code	
ttt	12,827	5-30-91	12:00a	Tic-Tac-Toe for Two 48's via IR	-Paul Pankratz
ttt doc	1,324	5-30-91	12:00a	... TTT documentation	
uflags	25,502	5-30-91	12:00a	System Flags Utility	-Scotty Thompson
uflags doc	25,313	5-30-91	12:00a	... UFLAGS documentation	
uudecode exe	2,306	5-30-91	12:00a	Unix-to-Unix Decoding DOS Program	-Theodore A. Kaldis
uuencode exe	2,542	5-30-91	12:00a	Unix-to-Unix Encoding DOS program	-Theodore A. Kaldis
uuencode doc	3,075	5-30-91	12:00a	... UUENCODE/DECODE documentation	-James H. Cloos
valnc	173	5-30-91	12:00a	Atomic Number -> Valence Electrons	-Michael Andrew Lowry
valnc src	340	5-30-91	12:00a	... VALNC source code	
wayne doc	2,554	5-30-91	12:00a	Info on Wayne's Mail Server	-Wayne H. Scott
xlib doc	8,229	5-30-91	12:00a	Whoops! Missing from Goodies Disk #2	

This is Joe Horn's personal collection of favorite HP 48 goodies, disk #3. It contains many excellent programs by many excellent programmers. Most of these files were downloaded from HP's Corvallis bulletin board system.

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!

FILENAME EXTENSIONS

.*.	(no extension) = raw binary downloadable HP 48 object.
*.DOC *.TXT	Documentation for HP 48 file (or an article) not written by HP.* Same as .DOC, but by written by an HP employee. * If a file has no DOC, look for comments in its SRC or LST file
.SRC	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
*.GRO	HP 48 Graphics Object (GROB) in binary format
*.LIB	HP 48 Library in binary format (load, store in a port, & purge)
*.LST *.ASC	Voyager-unthreaded "source code" listing with comments Assembly Language uncommented hex listing in Wickes ASC format
*.EXE	IBM PC executable; not for HP 48, MacIntosh, Amiga, etc.

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.

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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Snail: 1042 Star Route / Orange, CA 92667 (USA)

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