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APPENDIX A: FILES IN THE PROGRAMS SUBJECT

Appendix A gives a list of all the files, required and optional, under the Programs subject. This information indicates which files you need to perform particular functions.

Files Used During Start-Up

This section explains the automatic sequence of events during start-up and the files that make start-up possible.

When You Turn On Your Computer

1. If you have the "Screen.init" file in Programs, your computer uses it to display the start-up logo on your screen. If you don't have Screen.init (you may wish to delete it), a start-up logo does not appear.
2. The GRiD-OS operating system (CCOS) is automatically loaded into main memory (RAM).
3. CCOS reads the "User" file, if present. The User file performs preset functions during start-up such as identifying a start-up file and determining the current choices in the GRiDManager Options form (current modem, printer, screen font, etc.).
4. CCOS loads the "Common" file into RAM. Common is a required collection of program routines used by all of the GRiD applications.
5. After Common is loaded, the system executes any commands in the file "System.Init", if present. The program that actually executes the commands is called "Do".
6. "Executive" is loaded into RAM. Executive displays the File form and provides interchange services when transferring from one file to another using the Transfer command. Executive also supplies all windowing functions.
7. Finally, Executive either displays the File form or makes available a start-up file or window configuration you saved in a previous session.

System Files

System files provide general functions needed by most applications. These files are summarized in Table A-1.

CAUTION: The following files are always needed, regardless of the application you use:

CCOS

Common

Emulator (if you have no 8087 chip)

Executive

The following additional files are needed for external file server devices.

GRiDManager and GRiDLink (when connected by a cable link)

GRiDManager, PhoneLink, and GRiDCaseHayesInternal (when connected by phone lines)

Although the other files shown in Table A-1 are optional, you should study the function of each carefully before erasing it. You might need the file for some auxiliary function important to you. For example, if you want to use an Epson Model FX80 printer, you must have the files EpsonFx80 and Parallel in Programs.

Table A-1. *System Files in the Programs Subject*

File Name	Function
@SystemErrors	Contains text of error messages displayed by GRiD-OS.
CCOS	Always required. Controls the operations of all GRiD applications, input/output operations, and other service functions. Also referred to as GRiD-OS.
Common	Always required. Contains routines used by commands common to all the GRiD applications.
Diablo630Parallel	Translates Diablo Model 630 printer commands between your computer's parallel port and the printer.

File Name	Function
Diable630SerialETX/ACK	Translates Diablo Model 630 printer commands between your computer's serial port and the printer.
Disable ROM Files	Allows you to disable ROM files if you receive newer diskette versions. See the Utilities chapter for information on how to use Disable ROM Files.
Do	Executes commands in the System.init file, if present.
Duplicate Media	Copies complete diskettes.
Emulator	Required for those computers that don't have the optional 8087 math processor chip.
EpsonFX100Parallel	Translates Epson Model FX100 printer commands between your computer's parallel port and the printer.
EpsonFX80Parallel	Translates Epson Model FX80 printer commands between your computer's parallel port and the printer.
EpsonMX100Parallel	Translates Epson Model MX100 printer commands between your computer's parallel port and the printer.
EpsonMX82Parallel	Translates Epson Model MX82 printer commands between your computer's parallel port and the printer.
Executive	Always required. Displays the File form and provides the list of Kind choices. It also provides interchange services when transferring from one file to another with the Transfer command.

File Name	Function
GenericParallel	Provides interface services between your computer and printers (other than the Epson Models FX80, FX100, MX100, and MX82) connected through the parallel connector on the back of the computer. Doesn't translate printer commands between your computer and the printer.
GenericSerialETX/ACK	Provides interface services between your computer and printers (other than the Diablo Model 630) connected through the serial connector on the back of the computer. Uses the ETX/ACK communication protocol. Doesn't translate printer commands between your computer and the printer.
GenericSerialXON/XOFF	Provides interface services between your computer and printers (other than the Diablo Model 630) connected through the serial connector on the back of the computer. Uses the XON/XOFF communication protocol. Doesn't translate printer commands between your computer and the printer.
GRiDCase	Allows communication through the serial port on the back of the computer.
GRiDCase19Pin	Allows communication through the 19-pin serial port (RS-232C/RS-422) on the back of the TEMPEST GRiDCase computer.
GRiDCaseHayesInternal	Provides an interface between GRiD-OS and the GRiDCase internal modem, if available. The file is required when communicating over telephone lines with an external file server device; it is also required when using the GRiDTerm, GRiDVT100, and GRiD3101 terminal emulators.
GRiDManager	Allows connection to an external file server device. Provides file management and other functions described in the GRiDManager chapter.

<u>File Name</u>	<u>Function</u>
Hayes2400External	Provides an interface between GRiD-OS and an external Hayes Smartmodem 2400 ^(R) . The file is required when using an external Hayes Smartmodem 2400 compatible modem for phone line communications.
HayesExternal	Provides an interface between GRiD-OS and an external Hayes Smartmodem 1200 ^(R) . The file is required when using an external Hayes Smartmodem 1200 compatible modem for phone line communications.
HP2225Parallel	Translates HP ThinkJet 2225 printer commands between your computer's parallel port and the printer.
HPLaserJetGPIB	Translates Hewlett-Packard LaserJet printer commands between a TEMPEST GRiDCase computer's GPIB port and the printer.
HPLaserJetSerial	Translates Hewlett-Packard LaserJet printer commands between your computer's serial port and the printer.
HPSerial	Translates Hewlett-Packard plotter commands between your computer's parallel port and the plotter.
IBM5152Parallel	Translates IBM Model 5152 printer commands between your computer's parallel port and the printer.
Initialize Media	Initializes diskettes and hard disks for use under GRiD-OS. See the Utilities chapter for information on how to use Initialize Media.
MediaRepair	Repairs storage media, recovering damaged files and marking damaged areas as unusable. See the Utilities chapter for information on how to use MediaRepair.

File Name	Function
Parallel	Allows communication through the parallel port on the back of the computer.
PhoneLink	Contains line protocols that enable the computer to communicate with remote devices over a telephone line.
Scancase	Provides a status report on input/output devices attached to your GRiDCase and lists the factory-installed hardware options. See the Utilities chapter for information on how to use Scancase.
Screen.init	Displays the GRiD logo on the screen during GRiD-OS start-up.
ScreenWatch	Prints screen images or saves them in a file. See the Utilities chapter for information on how to use ScreenWatch.
Sound	Allows programs to use the internal speaker in your computer.
Temporary Disk	Creates a temporary RAM disk in main memory. See the Utilities chapter for information on how to use Temporary Disk.
TypeBlock12X16 - - -	Permits use of alternate typefaces selected on the Options form in GRiD applications. See Appendix E for examples of all the supplied typefaces.
TypeTextbook9X15.Type	
User	Performs preset functions during start-up. The information in the file lets GRiD-OS set the time and date, select the start-up file, set the current typeface, printer, modem, etc. Also stores window configuration and user defined key information.

File Name	Function
UserSentry	Allows you to change your password and request user information when signed on to a file server device.

APPENDIX B: PATHNAME SYNTAX

In some GRiD applications (such as ScreenWatch and GRiDWrite), you may need to specify files by giving a pathname. This appendix explains how to specify a pathname.

The format of a pathname is as follows:

'Device'Subject'Title-Kind-

Device is where the file resides. You must specify the full device name, or you can use one of the following abbreviations.

<u>Device Name</u>	<u>Abbreviation</u>
Internal Floppy Disk	f
Hard Disk	w

For example, for the device Internal Floppy Disk you can specify "f"; but for the device External Floppy Disk you must specify "External Floppy Disk".

Subject, *Title*, and *Kind* are identifications you assigned to the file when you created it.

NOTE: If a Subject, Title, or Device name contains a blank, the name must be enclosed in single quotes (') as shown in the examples below. Enclose the parts of the pathname within back quotes and tildes, as shown in the examples below.

'f'Financial'Income~worksheet~

'w''Sales Memos''January~text~

''external floppy disk''Reports''New products''~text~

APPENDIX C: ASCII CHARACTERS

Most computers support the ASCII (American Standard Code for Information Interchange) character set listed in Table C-1. The column headings in the table are described below.

- Dec The decimal code for the character.
- Hex The hexadecimal (base 16) code for the character.
- Grph The graphical representation of the character on the computer screen. Some of these graphic characters are not supported by printers.
- Abbr The ASCII abbreviation for the character's name.
- Name The name of the character.
- Press The keys that you press to produce the character, if not obvious from the labeling of the keyboard.

Table C-1. *ASCII Table*

Dec	Hex	Grph	Abbr	Name	Press
00	00		NUL	null	Ctrl-Shift-2
01	01		SOH	start of heading	Ctrl-A
02	02		STX	start of text	Ctrl-B
03	03		ETX	end of text	Ctrl-C
04	04		EOT	end of transmission	Ctrl-D
05	05		ENQ	enquiry	Ctrl-E
06	06		ACK	acknowledge	Ctrl-F
07	07		BEL	bell	Ctrl-G
08	08		BS	backspace	Ctrl-H
09	09		HT	horizontal tab	Ctrl-I, Tab

Dec	Hex	Grph	Abbr	Name	Press
10	0A		LF	linefeed	Ctrl-J
11	0B		VT	vertical tab	Ctrl-K
12	0C		FF	form feed	Ctrl-L
13	0D		CR	carriage return	Ctrl-M
14	0E		SO	Shift out	Ctrl-N
15	0F		SI	Shift in	Ctrl-O
16	10		DLE	data link escape	Ctrl-P
17	11		DC1	device control 1	Ctrl-Q
18	12		DC2	device control 2	Ctrl-R
19	13		DC3	device control 3	Ctrl-S
20	14		DC4	device control 4	Ctrl-T
21	15		NAK	negative ack	Ctrl-U
22	16		SYN	synchronous idle	Ctrl-V
23	17		ETB	end trans. block	Ctrl-W
24	18		CAN	cancel	Ctrl-X
25	19		EM	end medium	Ctrl-Y
26	1A		SUB	substitute	Ctrl-Z
27	1B		ESC	escape	Esc or Ctrl-;
28	1C		FS	file separator	Ctrl-Shift-,
29	1D		GS	group separator	Ctrl-=
30	1E		RS	record separator	Ctrl-Shift-.
31	1F		US	unit separator	Ctrl-Shift-hyphen
32	20		SP	space	
33	21	!		exclamation	
34	22	"		quotation marks	

Dec	Hex	Grph	Abbr	Name	Press
35	23	#		number sign	
36	24	\$		dollar sign	
37	25	%		percent sign	
38	26	&		ampersand	
39	27	'		apostrophe	
40	28	(opening parenthesis	
41	29)		closing parenthesis	
42	2A	*		asterisk	
43	2B	+		plus	
44	2C	,		comma	
45	2D	-		hyphen	
46	2E	.		period	
47	2F	/		slash	
48	30	0			
49	31	1			
50	32	2			
51	33	3			
52	34	4			
53	35	5			
54	36	6			
55	37	7			
56	38	8			
57	39	9			
58	3A	:		colon	
59	3B	;		semicolon	

Dec	Hex	Grph	Abbr	Name	Press
60	3C	<		less than	
61	3D	=		equal to	
62	3E	>		greater than	
63	3F	?			
64	40	@		commercial at sign	
65	41	A			
66	42	B			
67	43	C			
68	44	D			
69	45	E			
70	46	F			
71	47	G			
72	48	H			
73	49	I			
74	4A	J			
75	4B	K			
76	4C	L			
77	4D	M			
78	4E	N			
79	4F	O			
80	50	P			
81	51	Q			
82	52	R			
83	53	S			
84	54	T			

Dec	Hex	Grph	Abbr	Name	Press
85	55	U			
86	56	V			
87	57	W			
88	58	X			
89	59	Y			
90	5A	Z			
91	5B	[opening bracket	Fn-[
92	5C	\		backslash	
93	5D]		closing bracket	Fn-]
94	5E	^		circumflex	
95	5F	_		underline	
96	60	'		back quote	Fn-'
97	61	a			
98	62	b			
99	63	c			
100	64	d			
101	65	e			
102	66	f			
103	67	g			
104	68	h			
105	69	i			
106	6A	j			
107	6B	k			
108	6C	l			
109	6D	m			

Dec	Hex	Grph	Abbr	Name	Press
110	6E	n			
111	6F	o			
112	70	p			
113	71	q			
114	72	r			
115	73	s			
116	74	t			
117	75	u			
118	76	v			
119	77	w			
120	78	x			
121	79	y			
122	7A	z			
123	7B	{		left curly bracket	Fn-Shift-{
124	7C			vertical line	
125	7D	}		right curly bracket	Fn-Shift-}
126	7E	~		tilde	Fn-Shift--
127	7F		DEL	delete	

APPENDIX D: TROUBLESHOOTING

This appendix describes general problems that might arise as you use GRiD software and provides tips on how to resolve them. To use the troubleshooting table (Table D-1), look for your problem under the heading Symptoms, identify the Cause, and follow the suggested Remedy.

Table D-1. *Troubleshooting*

Symptom	Cause	Remedy
No start-up logo is displayed when you start GRiD-OS	Can't find Screen.init	Ensure that the file Screen.init exists in the Programs subject of an attached device.
Incorrect date or time on screen	Time-of-day clock set incorrectly	Set correctly using GRiDManager Set Time command.
Changes to system defaults not saved in User file	User file in ROM used at start-up	Copy User file from ROM to non-ROM start-up device, then restart system. System will read User file from non-ROM device.
User-set system configuration items not implemented at start-up	User file not found	Ensure that the User file exists in the Programs subject of an attached device.
Wrong Executive loaded at start-up	ROM version used instead of newer disk version	Disable the ROM version of Executive using the Disable ROM Files utility. Ensure that the new version exists in the Programs subject of an attached device.

Symptom	Cause	Remedy
Printer doesn't print correctly or at all	Wrong printer driver specified	Set correct printer driver for your printer in GRiDManager Options form.
Strange word wrapping in GRiDWrite	Unwanted spaces before or after words	Turn the format characters on (Options form) and erase any extra spaces around the word(s) that are wrapping strangely.
Errors or system problems when using GRiDLink on the TEMPEST GRiDCase	Wrong version of GRiDLink	Use GRiDLink version 3.1.7 or later.

APPENDIX E: TYPEFACE EXAMPLES

This appendix shows examples of all the typefaces supplied on the GRiD-OS diskette. The typefaces are shown below in the order of their sizes.

TypePC4x7	This is TypePC4x7 abcdefghijklmnopqrstuvwxyz0123456789
TypePC5x7	This is TypePC5x7 abcdefghijklmnopqrstuvwxyz0123456789
TypeGRiDBold6x7	This is TypeGRiDBold6x7 abcdefghijklmnopqrstu
TypePC6x7	This is TypePC6x7 abcdefghijklmnopqrstuvwxyz
TypeGRiD6x7	This is TypeGRiD6x7 abcdefghijklmnopqrstuvwxyz
TypeGRiD4x8	This is TypeGRiD4x8 abcdefghijklmnopqrstuvwxyz0123456789
TypeVT1004x8	This is TypeVT1004x8 abcdefghijklmnopqrstuvwxyz0123456789
TypeGRiD5x8	This is TypeGRiD5x8 abcdefghijklmnopqrstuvwxyz01234567
TypeVT1005x8	This is TypeVT1005x8 abcdefghijklmnopqrstuvwxyz0123456
TypeGRiD6x8	This is TypeGRiD6x8 abcdefghijklmnopqrstuvw
TypeVT1006x8	This is TypeVT1006x8 abcdefghijklmnopqrstuvw
TypeColonial8x8	This is TypeColonial8x8 abcdefghi
TypePCBasic8x8	This is TypePCBasic8x8 abcdefghijkl

TypeExpand12x8 **This is TypeExpand12x8**

TypeColonial10x12 **This is TypeColonial10x12**

TypeBlock9x12 **This is TypeBlock9x12 abcdefg**

TypeGRiD8x14 **This is TypeGRiD8x14 abcdefghijkl**

TypeColonial9x15 **This is TypeColonial9x15 abcd**

TypeTextbook9x15 **This is TypeTextbook9x15 abcd**

TypeBlock12x16 **This is TypeBlock12x16**

TypeTextbook12x19 **This is TypeTextbook12x19**

TypeModern15x20 **This is TypeModern 15 x 20**

TypeBlock24x32 **This is
TypeBlock24x32**