Release Notice:
Contributed Software for AViiON Systems
Release 7.0

Part Number 085-600472-00

This release notice applies to the following models:
R006A

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Release 7.0

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1 Introduction

This release notice describes the Contributed Software Package and its installation.

You can print additional copies of this release notice for personal use after you have installed this product. A copy suitable for line printers will be in the file /usr/opt/contrib/release/contrib_sw_7.0.rn.

2 Product Description

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2.2 Contents

The contributed software package includes an assortment of programs that Data General customers may find useful. The following   table summarizes the contents of the distribution. In most cases source files are included for these software packages, and binaries were created on DG/UX revision 5.4R4.11. Several of the packages are made up of more than one application. In these cases, the names of these applications are listed in the Contents column. The Package column lists the packages you may load using sysadm. The installation instructions are contained later in this release notice.

Table 1:

Package	Contents	Description
Options		sysadm name files (/usr/opt/contrib/options/*.name).
Notice		Release notice and file list.
archivers	cshar	C version of the shell archiver (2.3).
	freeze	Compression utility (2.3.3).
	lharc	LHarc Compression/Archiver utility (0.03) Shell.
	shar	Utility for splitting large source files into smaller ones for mailing.
bftp		time background file transfer program (bftp) time function sources.
Icons		Miscellaneous pixmap icons (0.1).
docroff		Data General Electronic Publishing System (4.0)
color_xterm		Xterm with several enhancements including support for setting foreground and background colors with escape sequences.
dgfax-1.0		A port of GNU fax for AViiON.
elm		interactive screen-oriented mail reader (2.4).
emacs		Emacs revision 19.29.
formatters	listc	C source printer (with line numbers and levels).
	lwf	converts ASCII text files to PostScript.
	mpage	formats multiple text pages in Postscript.
	nlistc	A modified version of listc (above).
	post	converts text and ditroff to PostScript.
	pscal	script that generates PostScript calendars.
frame_fun		Frame Users Network (FUN) software (3.0).
fvwm		A window manager which supports multiple desktops and numerous utility modules (revision 1.24r).
games	adventure	Adventure game (551)
	cbzone	C version of Battle Zone.
	cdungeon	(23.03.91) C version of Dungeon (1.0).
	fortune	Fortune cookies.
	ishido	Solitaire game of matching tiles (1.0).
	reve	An othello-like game (1.1.5).
groff	gnu	Document formatting system.
gzip		Gnu zip program for compressing and decompressing files. Includes support for PKZip (1.2.4).
imake		Make Makefiles.
interpreters	funcprolang	interpreter of John Backus' "FP" language.
	little-st2	Little Smalltalk interpreter.
kermit		Modem control program (5A).
make		An enhanced make (3.74).

musbus		Monash University software for benchmarking UNIX systems (5.0).
mush		mail user's shell which may be used in place of mailx (6.4).
nntp		NetNews server (1.5.11).
notes		bulletin board program.
pbmplus		Portable Bitmap conversion programs.
perl		Interpreter for perl, a language that combines some of the features of C, sed, awk, and shell (5.0).
popper		Post Office Protocol for Macintosh and PCs (1.83).
program	byacc	Berkeley YACC.
	cdecl	prints verbose descriptions of C declarations.
	cproto	generates C function prototypes.
	crefine	Refinement preprocessor for C/C++ (3.0).
	cvs	Release/revision control additions to RCS (1.2).
	f2c	Fortran to C translator (27.Jun.92).
	fxref	Fortran 77 cross-reference generator.
	p2c	Pascal to C translator.
	pltags	generate vi tags for Prolog files.
rc		one of the Plan-9 shell (1.1 gamma).
rn		an interactive Netnews reader (4.4.4) .
rwhois		Query InterNIC Registration Services for host, address and user information (1.0B2n).
scilab complex		A Matlab clone for solving and graphing mathematical functions, including vector and matrix problems (2.1.1).
tcl		Contains tk (4.0) and tcl (7.4) and Expect (5.17). Tcl is a command language and Tk is a toolkit which uses Tcl to implement a programming shell similar to sh, with support for X widgets. Expect uses tcl to create a program that can respond to expected inputs.
tcpd		Monitor incoming connections to network services .
tcpview		View tcp streams (1.0).
timed		BSD time server protocol.
tools1	agrep	Grep-like pattern matcher with approximate matching (2.04).
	archie	Interface for Archie database of FTP files (1.3.2).
	batch	Batch queue utlity (1.0).
	buttons	Button widget for launching commonly used programs (1.0).
	calend	calendar/reminder package.
	chown	BSD-style recursive chown.
	clock	displays a large 4-digit, 12-hour clock on the user's screen .
	dbmalloc	Debugging version of malloc/string (1.14).
	ddd	double-speed dd (data dumper).

	editline	Line editing library (1.5).
	faces	Visual list monitor (mail, print queue) (1.6.1).
	gc	general purpose, garbage (memory) collecting storage allocator.
	idledaemon	Killer of idle processes.
	microEmacs	Emacs-like text editor.
	month	a visual monthly calendar and time/event browser (8.7).
	ncftp	Nice front end for ftp (1.85).
tools2	phone	phone another user, typing screen to screen.
	procmail	General mail processor (2.71).
	psutils	PostScript utilities (1.0).
	rdist	Remote software distribution utility (6.1).
	remind	Reminder/calendar service (3.0.0).
	sc	spread sheet (6.21).
	scall	88100 system call tracer.
	screen	Allows a single ASCII terminal to run several interactive sessions on multiple virtual screens (3.05.01).
	tapecopy	a tool for tape-to-tape copies.
	tn3270	3270 terminal emulation and login to IBM VM/CMS via TCP/IP (4.1.1).
vim		A vi clone with some nice enhancements (3.0).
xfm		An X11 based GUI file manager/program launcher (1.3.2).
xgroups		An MS-Windows Program Manager clone (1.3).
xmcd		An X11/Motif-based CD player utility (1.3).
xmpeg		A player for MPEG files (2.0).
xpm		libXpm - support library for X11 pixmaps (3.4b).
xrolodex		A motif-based virtual rolodex (2.0).
xscreensaver		Displays pretty pictures when your screen is not in use. Also provides screen locking capabliities (1.22).
xtrap		Capture/playback X11 events (3.3).
xv		X11 image viewer which displays JPG, GIF,
TIFF,		
		XBM, XPM, PS files (3.10a).
X_games	netrek	network based trek game.
	panes	a stained glass game - requires a color
display.		
	x4war-1.1	version 1.1 of the x4war game.
	xblackjack	a MOTIF/OLIT based blackjack.
	xhextris	A Tetris like game using 6 sided pieces.
	xmris	a version of the arcade game Mr Do.
	xnetrek	a socket based xtrek written for BSD Unix 4.3.
	xpilot	xpilot rev 3.1.
	xpipeman-1.0	connect pipes to allow a liquid to flow - version 1.0.
	xroach-1.1	Roaches hide under the windows on your desktop (1.1)
	xvier	you and your opponent alternately throw stones into free columns.

```
X_misc
                  dtree         displays the tree structure of a Unix
directory.
                  unclutter-2.0 makes the cursor invisible until the mouse
move.
                  x3d           display 3d image files.
                  xalarm        a personal reminder and clock program.
                  xancur-1.3    root cursor animation program for X.
                  xarchie-2.0.9 an X browser interface to the Archie Internet
                                information system .
                  xautolock-1.8 locks the screen if nothing happens during a
                                certain interval of time.
                  xcmap         displays the contents of the default colormap.
                  xfbrows-2.1   XFBROWS Version 2.1 - a font-browser under
X11.
                  xless-1.4.1   A file Browsing tool for the X Window System.
                  xlock-2.3     Locks the local X display until a password is
                                entered.
                  xmultibiff    Monitor several "mail" files at one (2.2.2).
X_mit_clients
                  exterm        DEC VT102 and Tektronix 4014 terminal
emulator.
                  ixterm        exterm with several international character
sets
                  xmessage      display a message or query in a window.
                  xscope        a program to monitor X11/Client conversations.
X_mit_fonts
X_mit_lib                       Xaw3d, Xsi, Xt, Xwchar.
X_mit_rgb                       converts gb color-name database to source
form.
X_mit_util        bm-convert    converts an X10 bitmap to an X11 bitmap.
                  cpp           public domain C preprocessor.
                  sdbm          ndbm work-alike hashed database library.
                  soelim        expand .so filename lines in *roff sources.
------------------------------------------------------------------------------
```

3 Environment

3 Environment

3.1 Hardware

To determine the disk space requirements of the packages on this distribution see the table in Organization section under Software Distribution. Note that many of the packages are quite large and if you do not create a separate logical disk for the packages you intend to load, you may inadvertently fill up another file system. Special printers or modems may be needed to run some of the programs provided. The total disk space required for all packages is 395Mb.

3.2 Software

In order to install, build and run the software included with this release, DG/UX 5.4R4.11 (or later) should be installed. The packages have been compiled on and the Makefiles were customized for this revision of the operating system.

4 Enhancements and Changes

The binaries have been built under DG/UX 5.4R4.11 (Elf format). The source changes relative to the Revision 6.0 release are:

4.1 New Packages

xfm	1.3.2
xpm	3.4b
xscreensaver	1.22
fvwm	1.24r
Icons	0.1
imake	1.65
xmultibiff	2.2.2
Xaw3d	
color_xterm	
kermit	5A
xmpeg	2.0
xmcd	1.3
xv	3.10a
vim	3.0
make	3.74
scilab	2.1.1
xrolodex	2.0
tk	4.0
tcl	7.4
expect	5.17
groff	1.09
tcpview	1.0
popper	1.83
xgroups	1.3
perl	5.0

4.2 Upgraded Packages

xpilot	to 3.1.0
xless	to 1.4.1
unclutter	to 2.0
xarchie	to 2.0.9
ncftp	to 1.85

emacs	to 19.29
cvs	to 1.3
p2c	to 1.2
agrep	to 2.04
tdist	to 6.1
screen	to 3.05.01
reve	to 1.3
notes	to 1.0.4
mpage	to 2.14
rn	to 4.4.4
xtrap	to 3.3
docroff	to 4.0

4.3 Deleted Packages

Removed the PHIGS based demos and the PEX sources.
Removed X_mit_config and replaced it with imake.
Removed xmb from X_misc.
Removed adventure from games.
Removed imagen and imagen_src.
Removed X_mit_examples.
Removed X_mit_demos.
Removed X_mit_im/Xsi.
Removed imgtorf from frame_fun_3.0.
Removed ImageMagick and replaced it with xv and xmpeg.
Removed tex.

5 Notes and Warnings

5 Notes and Warnings

5.1 Notes

* It is suggested that you create a logical disk called contrib with a mount point of /usr/opt/contrib. You should determine the disk space requirements of the packages you wish to load and size the logical disk accordingly.

* All of the files on this distribution are owned by bin and belong to group bin.

* The package images on the distribution are in compressed tar format (see compress(1) and tar(1)). The sysadm utility will automatically uncompress these images when it loads the package.

* GNU software is now delivered via the GNU Toolset product (model R028A).

* Many packages have been compiled with the -g switch to include debugger informaation in the executable. To save space, you may run the command 'strip <filename>' to remove the debugging information.

5.2 Warnings

Make sure the /usr/opt/contrib file system is mounted before you begin loading packages or you may inadvertently fill up another file system.

* Most of the executables on this distribution were built for DG/UX 5.4R4.11 and may not run correctly on previous revisions of the DG/UX operating system.

* Most of the packages contain a file called 'Makefile.dg' This file has been customized to compile the package under DG/UX 5.4R4.11. Although many of the packages also include a Makefile and an Imakefile, in some cases the Makefile created from the Imakefile will not compile the package correctly. Makefile.dg should be used if it exists.

* All software contained on this distribution is unsupported.

6 Documentation

6 Documentation

All available documentation will be on-line in the directory where each package is installed. Most packages include a README file in the source directory. Certain documentation may contain additional contract terms and conditions binding on the user in addition to those imposed by Data General.

This release notice (085-600425-00) is the only printed documentation that is distributed with the contributed software.

7 Software Distribution

The software in this package contains both source code and binary executables. You may need to rebuild some executables to change the default parameters if the defaults do not conform with your setup. Data General Corporation does not provide any support for these packages.

7.1 Media

Table 3:

Model Number	Part Number	Description
R006A	079-600440-00	QICtape for 88k systems, Volume 1
R006A	079-600452-00	QICtape for 88k systems, volume 2
R006A	068-600160-00	CD-ROM for 88k systems
R006A	068-600161-00	CD-ROM for Intel systems

7.2 Organization

Organization of the Contributed Software Package is as follows:

Table 4:

Vol	File	Name	Size (bytes)	Type	Load Position
1	0	empty	39	image	
1	1	xdrtoc	7856	toc	
1	2	Options__uopt	1024	tarZ	/usr/opt optional movable
1	3	Notice__uopt	1123840	tarZ	/usr/opt optional movable
1	4	archivers__uopt	1994752	tarZ	/usr/opt optional movable
1	5	bftp__uopt	40448	tarZ	/usr/opt optional movable
1	6	Icons__uopt	640512	tarZ	/usr/opt optional movable
1	7	docroff__uopt	1024512	tarZ	/usr/opt optional movable
1	8	color_xterm__uopt	1355264	tarZ	/usr/opt optional movable
1	9	dgfax-1.0__uopt	2899456	tarZ	/usr/opt optional movable
1	10	elm__uopt	7488000	tarZ	/usr/opt optional movable
1	11	emacs__uopt	56219136	tarZ	/usr/opt optional movable
1	12	formatters__uopt	870912	tarZ	/usr/opt optional movable
1	13	frame_fun__uopt	8470016	tarZ	/usr/opt optional movable
1	14	fvwm__uopt	5598720	tarZ	/usr/opt optional movable
1	15	games__uopt	7975424	tarZ	/usr/opt optional movable
1	16	groff__uopt	20589568	tarZ	/usr/opt optional movable
1	17	gzip__uopt	1210368	tarZ	/usr/opt optional movable
1	18	imake__uopt	605696	tarZ	/usr/opt optional movable
1	19	interpreters__uopt	976896	tarZ	/usr/opt optional movable
1	20	kermit__uopt	4526080	tarZ	/usr/opt optional movable
1	21	make__uopt	4959744	tarZ	/usr/opt optional movable
1	22	musbus__uopt	751104	tarZ	/usr/opt optional movable
1	23	mush__uopt	2457088	tarZ	/usr/opt optional movable
1	24	nntp__uopt	1579008	tarZ	/usr/opt optional movable
1	25	notes__uopt	744960	tarZ	/usr/opt optional movable
1	26	pbmplus__uopt	3971072	tarZ	/usr/opt optional movable
1	27	perl__uopt	15355904	tarZ	/usr/opt optional movable
1	28	popper__uopt	636416	tarZ	/usr/opt optional movable
1	29	program__uopt	12017152	tarZ	/usr/opt optional movable
1	30	rc__uopt	939520	tarZ	/usr/opt optional movable
1	31	rn__uopt	1788928	tarZ	/usr/opt optional movable
1	32	rwhois__uopt	563712	tarZ	/usr/opt optional movable
1	33	scilab__uopt	50990592	tarZ	/usr/opt optional movable
1	34	scripts__uopt	1536	tarZ	/usr/opt optional movable
1	35	tcl__uopt	30939136	tarZ	/usr/opt optional movable
1	36	tcpd__uopt	322560	tarZ	/usr/opt optional movable
1	37	tcpview__uopt	5044736	tarZ	/usr/opt optional movable
1	38	timed__uopt	264192	tarZ	/usr/opt optional movable
1	39	tools1__uopt	12495360	tarZ	/usr/opt optional movable
1	40	tools2__uopt	9290752	tarZ	/usr/opt optional movable
1	41	vim__uopt	2658816	tarZ	/usr/opt optional movable

1	42	xfm__uopt	3948544	tarZ	/usr/opt	optional	movable
1	43	xgroups__uopt	486400	tarZ	/usr/opt	optional	movable
1	44	xmcd__uopt	4785152	tarZ	/usr/opt	optional	movable
1	45	xmpeg__uopt	7843328	tarZ	/usr/opt	optional	movable
1	46	xpm__uopt	2317312	tarZ	/usr/opt	optional	movable
1	47	xrolodex__uopt	4679168	tarZ	/usr/opt	optional	movable
1	48	xscreensaver__uopt	2190336	tarZ	/usr/opt	optional	movable
1	49	xtrap__uopt	7357440	tarZ	/usr/opt	optional	movable
1	50	xv__uopt	16404480	tarZ	/usr/opt	optional	movable
1	51	X_games__uopt	16078848	tarZ	/usr/opt	optional	movable
1	52	X_misc__uopt	8230400	tarZ	/usr/opt	optional	movable
1	53	X_mit_clients__uopt	6115328	tarZ	/usr/opt	optional	movable
2	0	empty	39	image			
2	1	xdrtoc	7856	toc			
2	2	X_mit_fonts__uopt	27912192	tarZ	/usr/opt	optional	movable
2	3	X_mit_im__uopt	7545856	tarZ	/usr/opt	optional	movable
2	4	X_mit_lib__uopt	7927808	tarZ	/usr/opt	optional	movable
2	5	X_mit_rgb__uopt	93184	tarZ	/usr/opt	optional	movable
2	6	X_mit_util__uopt	459264	tarZ	/usr/opt	optional	movable

7.3 File List

The list of files present on this distribution can be found in the file /usr/opt/contrib/release/contrib_sw_7.0.fl after the Notice package has been loaded.

8 Installation Instructions

Most of the packages will be loaded into the /usr/opt/contrib directory. It is suggested that you create a logical disk called contrib with a mount point of /usr/opt/contrib. You should determine the disk space requirements of the packages you wish to load (see the Organization section under Software Distribution) and size your contrib logical disk accordingly. Make sure the /usr/opt/contrib file system is mounted before you begin loading packages or you may inadvertently fill up another file system. Refer to Installing and Managing the DG/UX System for more information on creating logical disks and file systems.

In order to look at the table of contents and load the packages of the Contributed Software Package you will use the Software->Package menu of sysadm.

8.1 Displaying the Table of Contents of the Distribution

To see the table of contents of the Contributed Software Package, use sysadm's Software->Package->List operation.

8.2 Loading Packages

To load packages, use sysadm's Software->Package->Load operation.

8.3 Compiling the Packages

Although most of the packages have already been compiled, you can make changes and recompile them. Most of the packages will have a Makefile. Some editing of the Makefile and/or source code may be necessary in order for the source code to compile successfully in your environment. Makefile.dg, if it exists, has been customized for DG/UX 5.4R4.11 and is the preferred Makefile.

8.4 Installing/Setting Up the Packages

The packages on this distribution cannot be setup via sysadm, but must be installed manually. The package 'imake', should be the first to be installed. This will put installation scripts used by the other packages into /usr/bin. After loading 'imake', change directory to /usr/opt/contrib/imake, and, as root, run 'make install'.

Most of the rest of the packages can be installed by running the command

    'make -f Makefile.dg install'

as root from the package directory (/usr/opt/contrib/<package> in most cases). This will usually add files to /usr/bin, /usr/local/bin, /usr/lib, /usr/local/lib, /usr/catman, or /usr/local/catman.

9 Software Problems

This software is distributed with no warranty or support. No Software Trouble Reports (STR) may be submitted for problems found with the software included on this distribution.

10 Contributions

We welcome your contributions to Data General's Contributed Software collection. This distribution is released with each major revision of the DG/UX operating system. Software that is included must be freely available for distribution to Data General customers. Data General must receive a completed Distribution Agreement before your software package is included in the next collection. Data General assumes no liability for misuse of the software.

Submitted packages must include the following components:

* Source code
* Make file(s)
* Executable(s)
* Man page (formatted)
* Legal authorization of public domain / free distribution status, including statements in the source code
* Release/installation notes (optional)

A copy of the contributed software submittal form is available in /usr/opt/contrib/release/submittal_form. It is in lineprinter format.

End of Release Notice