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PlayStation(R) Programmer Tool
Runtime Library Release 4.3

Sample Changes and New Additions, and Known Bugs
from Release 4.2

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Known Bugs and Cautions

< Known Bugs >

- The following 2D environment mapping data of HMD environment mapping (beta version) can not be converted correctly HMD -> LAB -> HMD. This problem will be fixed on the next release.

data\hmd\scei\envmap\star09
data\hmd\scei\envmap\venus26

- "tuto5", "tuto6", "tuto7", "tuto8" and "tuto9" in the following directories provide messages "Use DTL-S2320" and/or "Use DTL-S2310" on the screen. The correct name of CD-ROM that is required to run those samples, is DTL-S2340. Those messages will be removed on the next release.

sample\cd\tuto\
sample\ds\tuto\

- When the following sample programs are executed as a child process of the "pcmenu" program in sample\module\menu, and then the child process returns to the "pcmenu" program, a hang-up occurs occasionally. This problem will be fixed in the next release.

sample\sound\stream\tuto1
sample\sound\stream\tuto2

Directory Structure Changes

< Addition for \psx\data >

- Formally, sample data were placed on each sample directory. Those sample data are gathered under \psx\data from this release. Herewith this changes data paths in each sample's "makefile.mak" are modified. In addition, the following directories are removed.

\psx\sample\graphics\data
\psx\sample\graphics\hmd\data
\psx\sample\graphics\texaddr\wave\data
\psx\sample\graphics\tmdview\data
\psx\sample\graphics\tod\janken\tmd
\psx\sample\graphics\tod\janken\tod
\psx\sample\sound\data

< Addition for \xdata >

- "da", "xa" and "mov.str" files are moved from \xa, \da and \data directories to \xdata. Herewith, sample programs that accesses to those data on CD-ROM

are modified. In addition, the following directories are removed.

- \da
- \xa
- \data

< Remove for \execmenu and \overmenu >

- \execmenu and \overmenu directories are removed from this release CD-ROM.

< Remove for \psx\utility >

- \psx\utility is removed from this release. Samples formally under the \psx\utility directory are changed as the following.

- \psx\utility\cdexec
 - This directory is removed from this release.
 - Please refer to the similar sample in sample\module\cdexec.
- \psx\utility\menu\
 - This directory is moved to \psx\sample\module.
- \psx\utility\screen\
 - This directory is moved to \psx\sample\graphics.

< Remove for \psx\kanji >

- ROM font sample program formally on \psx\kanji is moved to \psx\sample\kanji.

< Remove for "makefile.6x" >

- "makefile.6x" for DTL-H5000 in each sample are removed from this release. Please write your own make file with refer to "makefile.mak", to compile on DTL-H5000 environment.

New Additions

< HMD data addition >

- data\hmd\scei\anim\rots
 - New sample data that shows 6 variations of rotation order is added.
- data\hmd\scei\anim\domesc
 - New sample data to show almost of HMD colored polygons/shared-polygons is added.
- data\hmd\scei\equip\pp
 - HMD equipment primitive (camera) sample data are added.
 - This directory contains 3 kind of data corresponds with 3 camera types.
- data\hmd\scei\equip\snowman
 - HMD equipment primitive (camera and light) sample data is added.

< HMD sample addition >

- sample\graphics\hmd\basic
 - normview to display polygon normal vectors is added.
- sample\graphics\hmd\common
 - New scanning routine for HMD equipment primitive (camera and light) and sample primitive driver to display polygon normal vectors are added.

Existing Samples Improved, Changed and Corrected

< module >

- sample\module\execmenu
 - sample\module\overmenu
 - Descriptions in readme_j.txt and readme_e.txt regarding data on CD-ROM are removed because of removing \execmenu and \overmenu.
 - Please create CD-R disk with referring to readme_j.txt or readme_e.txt to run sample\module\execmenu and/or sample\module\overmenu.

 - < HMD >
 - data\hmd\scei\envmap\star09
 - Formally, star09.hmd was not able to dis-assemble with xhmd command.
 - Because PolyPrimHdr_0000 was defined as a header for environment mapping however this header related to ordinary polygon primitive.
 - xhmd will provide an error when such invalid data found in input file.
 - Now, star09 has fixed, star09.hmd can be dis-assembled.

 - data\hmd\scei\envmap\venus11
 - data\hmd\scei\envmap\venus26
 - data\hmd\scei\envmap\yesno5
 - M(0) is changed to NULL in environment mapping primitive headers.
 - With M(0), it causes unexpected mapping with GsMapUnit() function calling.

 - data\hmd\scei\envmap\texture
 - "readme_e.txt" was released as empty file, thus this problem is fixed.

 - sample\graphics\hmd\common
 - Scanning routine is changed to correspond for new primitive drivers.
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Brief Description of Directory: \PSX\SAMPLE

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 This directory contains all samples produced by SCE (Japan), SCEE (Europe) and SCEA (America). The most basic samples are in the "tuto" subdirectories (short for tutorial). They are not accompanied by an actual tutorial, but they can be understood using the concepts discussed in the "Library Overview" manual of the Technical Reference CDROM.

- \CD -Contains samples that demonstrate streaming music and video data from the CD.
- \CMPLR -Contains a scratch pad sample.
- \CONTRIB\* -Contains information about contributing your own samples
- \CONTROL\* -Contains samples that demonstrate code for controllers, such as the mouse, multitap, and the light gun.
- \DS -Contains samples that mirror those in \PSX\SAMPLE\CD\TUTO, but use LIBDS functions instead.
- \ETC -This directory has been eliminated. The contents have been placed in the directories marked by a "\*" in this list.
- \GRAPHICS -Contains dozens of samples for creating 2D and 3D graphics, including sprites, textured polygons, and hierarchical animation. Demonstrates the low level LIBGTE and LIBPU functions as well as the higher level LIBGS.
- \KANJI -Demonstrates how to use the Kanji routines.
- \MATH -Demonstrates higher level math functions.

- \MEMCARD\* -Demonstrates how to use the memory card.
- \MODULE -Demonstrates how programs can launch other programs on the PlayStation.
- \OLD -Legacy code provided only for reference.
- \PRESS -Demonstrates MDEG image compRESSion routines.
- \SERIAL\* -Contains samples that use the combat cable and the DTL-H3050.
- \SCEA -Samples contributed by developers and tech supporters in North America.
- \SCEE -Samples contributed by developers and tech supporters in Europe.
- \SOUND -Sound samples demonstrating LIBSND and LIBSPU.
- \THREAD\* -Sample demonstrating how to use threads.

("\*" indicates that the contents of these directories were formerly in the directory "\ETC", which has now been eliminated to avoid confusion with LIBETC.)

Almost all samples (except those in \SCEA and \SCEE) have been precompiled for use with the utility "cdmenu.bat" in the directory \psx\utility\menu. This utility allows you to browse through all of the samples with the Programmer Tools CD inserted into the DTL-H2010 or the DTL-H2510 (your development board's CD-ROM drives).

The contents of this CD are comprehensively discussed in the HTML document "readme.htm" in the root directory of the Programmer Tools CD. You should point your HTML 3.0 compatible Web browser at the document on the CD. Because the hyperlinks refer to documents on the CD, make sure the CD is in the drive.

You can download the latest Web browsers at [www.netscape.com](http://www.netscape.com) (for the Netscape Navigator) and at [www.microsoft.com](http://www.microsoft.com) (for the Internet Explorer).

If you do not have access to the Web, pdf versions of these documents are available in the directory "doc" on the CD. Read the "readme.txt" there for more information on its contents.

Adobe Acrobat, which can read pdf files, is available on the Technical Reference CD.

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