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SDevTC Tools 98/5/5 version

The following tools are included.

Refer to the documentation (\PSC\DOC) for a full description of each tool.

ASMPXSX.EXE	2.45	R3000 Assembler (SDevTC Syntax) (Win32)
ASPSX.EXE	2.77	R3000 Assembler (MIPS compatible assembler) (Win32)
BV.EXE		VGA Utility
CCPSX.EXE	3.06.0015	C compiler front end (Win32)
DEBUGPSX.EXE	4.113	R3000 Debugger
DBG_READ.TXT		README for debugger (in English)
DELAY.COM		Delay utility
DEXBIOS.COM	1.27	SDevTC TSR BIOS for H2000
DUMPCPE.EXE	2.01	CPE file dump tool
DUMPOBJ.EXE	2.00	OBJ file dump tool
DUMPSYM.EXE	2.02	SYM file dump tool
H25BIOS.COM	1.44	SDevTC TSR BIOS for H2500
MAIN.C		Message output sample program (source)
MAIN.CPE		Message output sample program (executable file)
MESS1.COM	1.04	Message handler
NEWDEX.CPE		Kernel patch module
PQALOAD.COM		COFF format executable file loader
PQBLOAD.COM		Binary format file loader
PQGOPSX.COM		Executable utility (Executes from specified address)
PREFSECT.EXE	1.01	Group information rewriting tool (Refer to PREFSMPL\README.TXT)
PSYLIB.EXE	2.09	SDevTC Librarian (Win32)
PSYLIB2.EXE	2.05	long file name compatible version. Usage is same as PSYLIB
PSYLINK.EXE	2.73	SDevTC Linker (Win32)
PSYMAKE.COM	1.14	SDevTC Make Utility
README.1ST		Text file describing major changes
README_J.TXT		This file
RESETPS.EXE	1.08	Target board boot program
RUN.EXE	2.36	Executable file loader
SN.CB		Brief macro (source)
SN.CM		Brief macro (after compilation)
SN.INI		Define file sample
SNPATCHJ.CPE		Patch module for H2000 (SNSystems version)
SNPATCHW.CPE		Patch module for H2000 (SNSystems)
SNPATCH.DOC		Patch module document for H2000 (in English)
SYMMUNGE.EXE	1.4	Symbol file compression utility
TESTMESS.COM		Utility to make message output from PC stdout
DOS\ASMPXSX.EXE	2.45D	R3000 Assembler (SDevTC syntax) (DOS)
DOS\ASPSXD.EXE	2.72D	R3000 Assembler (MIPS compatible assembler) (DOS)
DOS\CCPSXD.EXE	3.05.0009	C compiler front end (DOS)
DOS\PSYLIBD.EXE	2.09D	SDevTC Librarian (DOS)
DOS\PSYLINKD.EXE	2.73D	SDevTC Linker (DOS)
FLASH25\		Firmware kit for H2500 (Refer to FLASH25\README_J.TXT)
FLASH27\		Firmware kit for H2700 (Refer to FLASH27\README_J.TXT)
PREFSMPL\		Sample for PREFSECT (Refer to PREFSMPL\README.TXT)

The GNU compilers which can be called from CCPSX are located in \COMPILER.

CPPPSX.EXE	SN32.4.0.0007	GNU Preprocessor (Win32)
CC1PSX.EXE	SN32.4.0.0007	GNU C Compiler (Win32)
CC1PLPSX.EXE	SN32.4.0.0007	GNU C++ Compiler (Win32)
COPYING		GNU GENERAL PUBLIC LICENSE
DOS\CPPPSX.EXE	SN16.3.7.0003	GNU Preprocessor (DOS)
DOS\CC1PSX.EXE	SN16.3.7.0003	GNU C Compiler (DOS)
DOS\CC1PLPSX.EXE	SN16.3.7.0003	GNU C++ Compiler (DOS)
DOS\SNGNUBUG.TXT		Bug information
DOS\SNGNUVER.TXT		Version update information

(Tools for the DOS version)

When using the tools in the DOS environment, use the DOS version tools stored in PSSN\DOS. Note that the GNU compilers called by CCPSXD must also use the DOS version. Generally, it is possible to use the DOS version tools by making the following changes:

1) Replace the command names of Win32 version tools described in makefile, etc., with the corresponding DOS versions.

Example:

Old: ccpsx -O3 -c main.c

New: ccpsxd -O3 -c main.c

2) Find the PSSN\DOS path.

3) Modify the following lines within the file PSSN\sn.ini to reflect your directory structure:

Example:

```
[ccpsxd]
library_path=c:\ps\psx\lib
c_include_path=c:\ps\psx\include
compiler_path=c:\ps\pssn\dos
assembler_path=c:\ps\pssn\dos
linker_path=c:\ps\pssn\dos
```

4) Define the environment variable PSYQ_PATH (Bug fix).

In ccpsxd ver.3.05.0009 an error will be returned if PSYQ_PATH is not defined.

However, it is the directory specified in SN_PATH which will actually be referred to.

Example:

```
> set PSYQ_PATH=C:\TEMP
```

Version Histories

<SDevTC Toolsl 98/5/5 Version>

Modified files:

pssn\aspsx.exe	Version update
pssn\ccpsx.exe	Change in file search method (refer to readme.1st)
pssn\debugpsx.exe	Version update
pssn\dbg_read.txt	README for debugger (in English)
pssn\psylink.exe	Correction of bug which caused the -1 code (fail) to be returned in a warning
pssn\snpatchj.cpe	Version update
pssn\readme.1st	Description of changes to DOS environment variables
pssn\readme_j.txt	This file
pssn\sn.ini	Modified along with ccpsx changes
pssn\flash25	Version update

pssn\flash27	Version update
pssn\dos\psylinkd.exe	Same changes as psylink
compiler\cpppsx.exe	GNU 2.8.0 Version update
compiler\cc1psx.exe	GNU 2.8.0 Version update
compiler\cc1plpsx.exe	GNU 2.8.0 Version update

Added files:

pssn\psylib2.exe	psylib.exe long file name compatible version. Same usage method as psylib.
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<SDevTC Tools 98/1/12 Version>

Modified files:

PSSN\ASMPXSX.EXE	Version update
PSSN\ASPSX.EXE	Version update
PSSN\PSYLIB.EXE	Version update
PSSN\PSYLINK.EXE	Version update
PSSN\SN.INI	Addition of libpad.lib
PSSN\DOS\ASMPXSX.DEXE	Version update
PSSN\DOS\ASPSXD.EXE	Version update
PSSN\DOS\PSYLIBD.EXE	Version update
PSSN\DOS\PSYLINKD.EXE	Version update
COMPILER\CPPPSX.EXE	Version update
COMPILER\CC1PSX.EXE	Version update
COMPILER\CC1PLPSX.EXE	Version update

Added files:

PSSN\SYMMUNGE.EXE	Symbol file compression utility.
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<SDevTC Tools 97/9/5 Version>

Modified files:

PSSN\ASPSX.EXE	Changed to correspond to renamed SDevTC
PSSN\ASMPXSX.EXE	Changed to correspond to renamed SDevTC
PSSN\CCPSX.EXE	Eliminated a problem which occurred when -kanji was specified. Changed to correspond to renamed SDevTC
PSSN\DEBUGPSX.EXE	Version update. Changed to correspond to renamed SDevTC
PSSN\DBG_READ.TXT	README for debugger (in English)
PSSN\DEXBIOS.COM	Eliminated IRQ problem with the H2700
PSSN\DUMPSYM.EXE	Version update
PSSN\H25BIOS.COM	Version update. Changed to correspond to renamed SDevTC
PSSN\MESS1.COM	Changed to correspond to renamed SDevTC
PSSN\PREFSECT.EXE	Version update
PSSN\PSYLIB.EXE	Version update
PSSN\PSYLINK.EXE	Version update
PSSN\README_J.TXT	This file
PSSN\RESETPS.EXE	Eliminated bug which prevented print output from the H2500 and H2700.
PSSN\TESTMESS.COM	Changed to correspond to renamed SDevTC
PSSN\DOS\ASPSXD.EXE	Changed to correspond to renamed SDevTC
PSSN\DOS\ASMPXSX.DEXE	Changed to correspond to renamed SDevTC
PSSN\DOS\CCPSXD.EXE	Changed to correspond to renamed SDevTC
PSSN\DOS\PSYLINKD.EXE	Changed to correspond to renamed SDevTC
COMPILER\CPPPSX.EXE	Includes kanji.com features
COMPILER\CC1PSX.EXE	Changed to correspond to the CPPPSX version update
COMPILER\CC1PLPSX.EXE	Changed to correspond to the CPPPSX version update

Added files:

PSSN\DUMPCPE.EXE	Dumps the CPE files
PSSN\README.1ST	Text files for renamed SDevTC

PSSN\SN.CB	Former PSQ.CB. Renamed to correspond with SDevTC
PSSN\SN.CM	Former PSQ.CM. Renamed to correspond with SDevTC
PSSN\SN.INI	File to replace PSYQ.INI
	CCPSX searches this file before PSYQ.INI

Deleted files:

PSSN\KANJI.COM	Absorbed by the GNU preprocessor (CPPPSX.EXE)
PSSN\PSYQ.CB	Changed to SN.CB to correspond with SDevTC
PSSN\PSYQ.CM	Changed to SN.CM to correspond with SDevTC
PSSN\PSYQ.INI	Changed to SN.INI to correspond with SDevTC

Other:

PSSN\PREFSMPL\	Source files and libgs made current
PSSN\FLASH25\	Updated to the newest environment
PSSN\FLASH27\	Newly added. H2700 module
COMPILER\DOS\	Same type of changes as the 32bit GNU compiler

<Psy-Q Tools 97/4/25 Version>

Modified files:

PSYQ\README_J.TXT	
PSYQ\ASMPXSX.EXE	Changed to 32bit version
PSYQ\ASPSX.EXE	Changed to 32bit version
PSYQ\CCPSX.EXE	Changed to 32bit version
PSYQ\PSYLIB.EXE	Changed to 32bit version
PSYQ\PSYLINK.EXE	Changed to 32bit version
PSYQ\PSYMAKE.EXE	
PSYQ\DEBUGPSX.EXE	
PSYQ\DBG_READ.TXT	
PSYQ\PSYQ.INI	
COMPILER\CPPPSX.EXE	32bit version GNU preprocessor
COMPILER\CC1PSX.EXE	32bit version GNU preprocessor
COMPILER\CC1PLPSX.EXE	32bit version GNU preprocessor

Added files:

PSYQ\DOS\ASMPXSD.EXE	
PSYQ\DOS\ASPSXD.EXE	
PSYQ\DOS\CCPSXD.EXE	
PSYQ\DOS\PSYLIBD.EXE	
PSYQ\DOS\PSYLINKD.EXE	
COMPILER\DOS\CPPPSX.EXE	16bit version GNU preprocessor
COMPILER\DOS\CC1PSX.EXE	16bit version GNU C compiler
COMPILER\DOS\CC1PLPSX.EXE	16bit version GNU C++ compiler

SYMMUNGE Symbol file compression utility

Usage : symmunge [options] infile [outfile]
Options : /i - ignore differences in structure definitions
/u - unmangle c++ names

SYMMUNGE removes multiple definitions in an identical structure/union/enum and by rebuilding the source level debug information, it reduces the size of the symbol file (.SYM). As a result, the memory volume used for debugging is decreased and activation will be faster. By specifying /u, compatibility with C++ is possible. If structures containing different contents are found within files with the same name, SYMMUNGE will return an error by default. However, by specifying /i, the information on the applicable structure will be retained and processing will continue.

Example:

If the following structure appears within a certain file

```
struct xxx
{
    int a;
    int b;
};
```

and the following structure appears in another file,

```
struct xxx
{
    int a;
    short b;
};
```

SYMMUNGE will perform processing as described below:

```
DOS> symmunge main.sym
```

```
Error : non-matching definitions for struct 'xxx' in field(s) b - b
```

```
DOS> symmunge /i main.sym
```

```
Warning : non-matching definitions for struct 'xxx' in field(s) b - b
```

```
Symbol file compacted OK
```

```
Total allocated 262144 bytes
```