
READ THIS FIRST

This document contains important notices, installation instructions, and last-minute corrections to the manual. Please read these notices *before* installing and using Spontaneous Assembly!

Distribution Disks

All Spontaneous Assembly files are compressed into self-expanding files. These files may be expanded as described in *Installation* below.

5¼" Disk Contents

Disk 1 of 4	TINY/SMALL Model Libraries
Disk 2 of 4	MEDIUM/COMPACT Model Libraries
Disk 3 of 4	LARGE Model Libraries
Disk 4 of 4	Include/Source/Utility/Skeleton/Examples Files

3½" Disk Contents

Disk 1 of 2	TINY/SMALL/MEDIUM/COMPACT Model Libraries
Disk 2 of 2	LARGE Model Libraries, Include/Source/Utility/Skeleton/Examples Files

File

Expands to

TINY.EXE	Tiny model ASM and C libraries (SAT.LIB and _SAT.LIB) and STARTT.OBJ
SMALL.EXE	Small model ASM and C libraries (SAS.LIB and _SAS.LIB) and STARTS.OBJ
MEDIUM.EXE	Medium model ASM and C libraries (SAM.LIB and _SAM.LIB) and STARTM.OBJ
COMPACT.EXE	Compact model ASM and C libraries (SAC.LIB and _SAC.LIB) and STARTC.OBJ
LARGE.EXE	Large model ASM and C libraries (SAL.LIB and _SAL.LIB) and STARTL.OBJ
INCLUDE.EXE	All include files (*.INC) and the include source file (INCLUDE.SRC)
SOURCE.EXE	All assembly .SRC files (see description for .SRC files below)
UTIL.EXE	All utility .EXEs and utility source files
SKELETON.EXE	Skeleton files for creating programs and modules (MAIN.XXX and MODULE.XXX)
EXAMPLES.EXE	Utility source files and selected source code from the manual

The source code files (*.SRC) are only minimally compressed. This allows them to be viewed and searched using most text retrieval programs. Assembly modules may be extracted from .SRC files at any time using the Spontaneous Assembly EXTRACT utility which creates a separate source file for each module in a .SRC file. Extracted files are named *.ASM (for assembly language source files) or *.CIN (for commented include source files). The syntax for the EXTRACT utility may be viewed by typing EXTRACT on the command line. The distinction between commented and uncommented include files is documented in Appendix F of the manual.

Installation

Although any directory structure may be used, the following directory structure is recommended for installing Spontaneous Assembly:

C:\SA	Work directory
C:\SA\INCLUDE	*.INC, INCLUDE.SRC, *.CIN (commented include files)
C:\SA\LIB	SA?.LIB, _SA?.LIB, START?.OBJ
C:\SA\SOURCE	*.XXX, *.SRC, *.ASM (only needed if the source is to be used)
C:\SA\UTIL	util.EXE (this directory should be in your PATH)
C:\SA\EXAMPLE	example.ASM, util.ASM

With this arrangement, programs may be written, assembled, and linked in a separate directory (i.e., C:\SA) without mixing program files with Spontaneous Assembly files. Spontaneous Assembly include files and library files may be accessed at assembly and link time by specifying their paths on the assembler and linker command lines.

Installing and Expanding Spontaneous Assembly Files

WARNING! If you have modified source files or libraries and don't want them overwritten, be sure to rename or move them before copying, expanding, or extracting equivalently-named files from the distribution disks.

1. Set up the directory structure of your choice.
2. Decide which library models are needed and copy the appropriate self-expanding files (as described in the *Distribution Disks* section above) to the *library* directory. Then expand the files by typing the name of each file on the command line while in the *library* directory.
3. Copy INCLUDE.EXE to the *include* directory and type INCLUDE on the command line while in the *include* directory.
4. If the Spontaneous Assembly source code is to be used, copy SOURCE.EXE to the *source* directory and type SOURCE on the command line while in the *source* directory. (See the description for .SRC files in the *Distribution Disks* section above.)
5. Copy SKELETON.EXE to the *source* directory and type SKELETON on the command line while in the *source* directory.
6. Copy UTIL.EXE to the *utility* directory and type UTIL on the command line while in the *utility* directory.
7. Copy EXAMPLES.EXE to the *example* directory and type EXAMPLE on the command line while in the *example* directory.

Spontaneous Assembly files may also be expanded from the distribution disks to a specified directory using the /e switch. This is done by typing the name of the file to be expanded followed by /e and the complete path name of the destination directory (i.e., the files in TINY.EXE may be expanded to C:\SA\LIB by typing TINY /eC:\SA\LIB).

Microsoft MASM 5.1 Problem

MASM version 5.1 has a number of bugs which can prevent the Spontaneous Assembly source code from assembling properly (see page 8 of the manual for a detailed explanation). These bugs were fixed by Microsoft in an incremental update known as MASM 5.10a. Registered users of MASM 5.1 who do not already have MASM 5.10a should contact Microsoft Technical Support *immediately* to obtain a free MASM 5.10a incremental update disk. Microsoft Technical Support may be reached at (206) 637-7096. Ask for the MASM 5.10a incremental update.

Microsoft LIB.EXE Problem

The following problem has been noted with Microsoft's LIB 3.10, the version typically distributed with MASM 5.1: When a large number of modules have been added to a library, LIB is occasionally unable to locate some of the modules when an attempt is made to extract them from the library. This problem makes it impossible to extract an affected module in order to replace it with a newer version module. This bug was fixed by Microsoft in LIB 3.17. Registered users of LIB 3.10 who do not already have LIB 3.17 may contact Microsoft Technical Support to obtain a free LIB 3.17 upgrade disk. Microsoft Technical Support may be reached at (206) 637-7096.

Note that this problem does not affect the usage of the Spontaneous Assembly libraries in any way other than that described above. The libraries may be linked using LINK.EXE without any difficulty.

Borland TASM 1.0 Batch Mode Problem

The /B option of the included Spontaneous Assembly REBUILD utility can significantly boost assembly speed by passing filename templates directly to the assembler instead of invoking the assembler once for each matching source file. This option may only be used with assemblers which accept filename templates on their command line, such as Borland International's Turbo Assembler. Unfortunately, TASM 1.0 has difficulty assembling large numbers of files in batch mode (i.e., TASM may hang or generate incoherent error messages). To avoid this TASM problem, the /B REBUILD option should only be used with filename templates which match 150 or less files at a time. This problem was resolved in versions 1.01 and later of TASM.

Technical Support

Technical support is available to all registered users of Spontaneous Assembly at **1-800-ASSEMBLY** (1-800-277-3625) or (801) 222-9500 between the hours of 8:30 am and 5:00 pm Mountain Time, Monday through Friday. Technical support is also available via FAX at (801) 222-9521.

READ THIS FIRST!

Installation

All Spontaneous Assembly files (except README.TXT) are distributed in compressed format to minimize the number of distribution disks. These files must be expanded before they may be used.

Although any directory structure may be employed, the following directory structure is recommended for installing Spontaneous Assembly:

SA	Work directory
—INCLUDE	*.INC, *.CIN
—SOURCE	Source modules for assembly functions
—FP	Source modules for floating-point assembly functions
—LIB	SA?.LIB, FPC*.LIB, ?START.OBJ, ?START?.OBJ
—UTIL	util.EXE (this directory should be in your PATH)
—SKELETON	Skeleton files for creating programs and modules
—EXAMPLE	Assembly examples
—SUPPORT	Getting Support

With this arrangement, programs may be written, assembled and linked in a separate directory (i.e., C:\SA) without mixing program files with Spontaneous Assembly files. Spontaneous Assembly include files and library files may be accessed at assemble and link time by specifying their paths on the assembler and linker command lines.

Installing Spontaneous Assembly Files

(WARNING! If you have previously installed Spontaneous Assembly and you have modified source files or libraries which you don't want overwritten, be sure to rename or move them before copying, expanding, or extracting equivalently-named files from the distribution disks!)

1. Set up the directory structure of your choice.
2. Decide which library models are needed and identify the appropriate self-expanding files (as described in the *Distribution Disks* section below).
3. Expand each required self-extracting file into the appropriate subdirectory. This may be performed in one of two ways. Either of the following examples will expand the small model libraries from a diskette in drive A into the C:\SA\LIB directory.

Method A: Copy the required self-extracting files to the desired directories and run each of them in their respective directories.

```
cd \sa\lib
copy a:\small.exe
small
del small.exe                (optional)
```

Method B: Run the required self-extracting files from the distribution disk using a "/e" switch to specify the complete path of the destination directory as follows:

```
a:\small /ec:\sa\lib
```

This method creates the specified subdirectory if it does not already exist.

Extracting Source Code

When source code is first installed (see *Installing Spontaneous Assembly Files*, above) it is installed in a compressed .SRC format to conserve disk space. These .SRC files contain collections of related .ASM (assembly) and .CIN (commented include) files which must be extracted using the EXTRACT utility before they can be used. The syntax for the EXTRACT utility may be viewed by typing EXTRACT at the DOS prompt.

Distribution Disks

Disk Contents

- Disk 1 SMALL/MEDIUM/COMPACT Libraries, Readme File, Support File, Example Files
- Disk 2 TINY/LARGE Libraries, Include Files, Skeleton Files, Source Files, Utility Files

File	Expands to
README.TXT [†]	Last-minute corrections to the manual and other important notices. (Not compressed)
TINY.EXE	Tiny model libraries (SAT.LIB, ESAT.LIB, TSAT.LIB, and FPC?T.LIB) and startup code (STARTT.OBJ and ?STARTT.OBJ)
SMALL.EXE [†]	Small model libraries (SAS.LIB, ESAS.LIB, TSAS.LIB and FPC?S.LIB) and startup code (STARTS.OBJ and ?STARTS.OBJ)
MEDIUM.EXE	Medium model libraries (SAM.LIB, ESAM.LIB, TSAM.LIB and FPC?M.LIB) and startup code (STARTM.OBJ and ?STARTM.OBJ)
COMPACT.EXE	Compact model libraries (SAC.LIB, ESAC.LIB, TSAC.LIB and FPC?C.LIB) and startup code (STARTC.OBJ and ?STARTC.OBJ)
LARGE.EXE	Large model libraries (SAL.LIB, ESAL.LIB, TSAL.LIB and FPC?L.LIB) and startup code (STARTL.OBJ and ?STARTL.OBJ)
SOURCE.EXE	Source modules for assembly functions
SOURCEFP.EXE	Source modules for floating-point assembly functions
INCLUDE.EXE [†]	Include files (*.INC, *.CIN)
EXAMPLE.EXE	Examples for assembly
UTIL.EXE	Utility programs for maintaining the libraries
SKELETON.EXE	Shell files for creating programs and modules
SUPPORT.EXE [†]	Information on contacting Base Two Development Support

[†]Recommended for minimal installation.

Virus Disclaimer

We have tested our software with the latest virus checking technologies. Along with measures to maintain a virus-free environment, our tests have included virus scans with Central Point Anti-Virus 1.4 and The Norton AntiVirus 2.0.

However, since no anti-virus system is 100% reliable, we strongly caution you to verify that this software, prior to installing it, is virus-free with an anti-virus system that you have confidence in. Base Two Development makes no representations that this software is virus-free other than as described above.

Technical Support

Technical support is available to all registered users of Spontaneous Assembly at **1-800-ASSEMBLY** (277-3625) in the U.S.A and 1-801-222-9500 both inside and outside the U.S.A between the hours of 9:00 am and 5:00 pm Mountain Time, Monday through Friday. Technical support is also available via FAX at 1-801-222-9521.

March 1, 1994

Dear *SpontaneousAssembly* Customer,

We are pleased to provide you with your new copy of *SpontaneousAssembly* for Version 3.0, which includes both the assembly *and* the C/C++ versions, with full source code. Feel free to call our support number if you have any questions or problems.

Please note that *basetwo* Development has changed ownership. Effective March 1, 1994, PowerQuest Corporation acquired all the assets of *basetwo* Development, including both versions of *SpontaneousAssembly* (the assembly-only version, and the new C/C++ version). Accordingly, our address and main business phone number are different from those printed on the documentation. Please use our new address and phone listed below for support and for ordering new product (we have kept the same 1-800-ASSEMBLY toll-free line, however).

With this change in ownership, we are repackaging *SpontaneousAssembly*, slashing the retail price to \$99.95, including both the assembly and C/C++ versions together, and including additional software. Call our office for current pricing and product information.

In addition, we are exploring development of a Windows version, an OS/2 version, and 32-bit versions of the program. We would like your input -- we intend to continually improve and enhance our products so we can keep you as our customer for a very long time!

Sincerely,

Eric J. Ruff
President
PowerQuest Corporation

Our new address:

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Orem, UT 84057**

Orders: 1-800-ASSEMBLY (1-800-277-3625)

Support: 1-801-221-1603

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