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The Lund Simula System
Release 4.07

Freeware version for Macintosh/MPW

This document describes the Lund SIMULA system for Macintosh under MPW. The system supports full Simula with no artificial restrictions. With the system is distributed a ALFA release of a Simula interface to the toolbox. This interface is not yet complete but some enough parts are covered to produce some window based programs. The release also includes a first version of a Lund Simula reference stack based on Hypercard. Release 4.07 is a freeware version of Lund Simula for the Macintosh. You are free to distribute the system. For the availability of future releases of the system please conact Lund Software House.

Requirements

To install the Simula System you need a Macintosh Plus (SE or II) with at least 2 MByte RAM, a hard disk and a MPW-system with an assembler and a linker.

Installation

To install the system, use the following procedure:
- Insert the Simula disk (enclosed)
- Use the finder to open the MPW-folder
- Copy the contents of the folder Scripts on the Simula-disk to the folder MPW:Scripts.
  Files: simcomp, simld, sim
- Copy the contents of the folder Tools on the Simula-disk to the folder MPW:Tools.
  Files: Simula
- Copy the contents of the folder Libraries on the Simula-disk to the folder MPW:Libraries (or to the innermost Library if your library is organized as Libraries:Libraries).
  Files: simrtslib, simulainterface.p.o, simulastandalone.a.o, APPL_terminal.a.o, APPL_othersvc.a.o
- Copy the contents of the folder AIncludes on the Simula-disk to the folder MPW:Asm:Aincludes. (This folder is sometimes placed in MPW:Interfaces.)
  Files: instfile

The installation of the Simula system is now complete. Copy the example program SimulaHasClass.sim to a suitable scratch folder and remove the Simula-disk.

First try

To test the installation of the system try the example "SimulaHasClass.sim".

- Double-click on the icon of " SimulaHasClass.sim". MPW will start and a window named "SimulaHasClass.sim" will be opened. The window contains the test program with an introductory comment that is actually the commands to compile, link and execute the program. Mark the comment (excluding ! and ;) and execute by pressing ENTER. The program will be compiled, linked and executed. After the execution four new files will be found in the folder:

SimulaHasClass	the executable file
SimulaHasClass.a	the assembler program generated by the compiler
SimulaHasClass.sim.o	the object file generated by the assembler
SimulaHasClass.atr	the attribute file used to check calls to separately compiled procedures or classes.

- Quit from MPW but do **not** save the new version of SimulaHasClass.sim.

In order to use also the Toolbox interface:

- Copy the folder "Simula" on the installation disk to MPW:Simula.
- Start MPW and change directory to MPW:Simula:Sinterfaces.

- enter make, select its output and hit Enter again to compile the interface modules.
  This will take approx 10 Minutes on a MacII and 30 minutes on a mac Plus.
- Change directory to MPW:Simula:Sexamples
- Enter make and select the output to compile and link the demo progams one by one.
- Execute the programs and compare it with the source code.

- For more information on how to make your own applications, consult the Hypercard reference stack.