Massachusetts Institute of Technology

6.034 Artificial Intelligence

Handout 6034 Item # $\boxed{2}$

This handout includes some documentation for the Scheme-to-C system (developed at DEC Western Research Labs) that we will be using for 6.034 this term. By the way, the public domain distribution of this system is available on the Web from `ftp://ftp.digital.com/pub/DEC/Scheme-to-C/` where you can also find instructions on porting to a wide variety of machines.

There are two parts to the handout, one is a introduction in the form of a series of 19 interactions with the system, illustrating its use and capabilities. The second is a commented index to the *Revised⁴ Report on the Algorithmic Language Scheme*, which many of you have from 6.001 and which is also available as `/mit/6.034/handouts/r4rs.ps`. This commented index lists what functions are available. The index and the intro handout are also available on `/mit/6.034/handouts/intro.ps` and `/mit/6.034/handouts/index.ps`. They are also available in ascii format, `intro.mss and index.mss`, on the same directory. All these handouts can also be FTP'd from our Web page.

Note that Scheme-to-C is NOT the same Scheme that you used in 6.001, it is generally a SUBSET of the MIT Scheme used in 6.001. The key advantages of Scheme-to-C are that it runs on Athena workstations (and Linux machines) and is reasonably fast even on machines with little memory workstations. It also has a simple interface to C. If you have an MIT Scheme system on your home machine, you should be able to do the assignments on it. We will try to remain compatible with the MIT Scheme, but we make no guarantees we can achieve this.

The file `/mit/6.034/doc/scheme-to-c-hints.txt` has a series of possibly useful additional information on using Scheme-to-C. If you run across any piece of advice that might help others, please E-mail it to your TA and we will add it to the file.