

1. Compile code for the StrongARM and microengines, and place the resulting files in a directory, *D*. The Intel SDK uses the terms *ACE files* and *microblock group files* (.uof files) for the compiled code.
2. Create a system configuration file named *ixsys.config* and place in directory *D*.
3. Copy the entire contents of directory *D* to the read-write public download directory, *W*, that has been mounted by the testbed. (This step is not necessary if only one programmer has access to the testbed.)
4. Run a telnet client program on the host that forms a connection to the testbed system, and log onto the StrongARM.
5. On the StrongARM, change to NSF-mounted directory *R*, and run shell script *ixstart* with file *ixsys.config* as an argument.
6. To stop the IXP1200, run the *ixstop* script.

Figure 21.4 The six steps required to load and run software on the testbed after the StrongARM has been booted.