
Design by contract and static verification

Static checking

Tools for checking contracts

- A number of tools exist for statically checking that contracts are respected.
- These tools work by a combination of symbolic execution, automated theorem proving, and model checking.
- They do not test the code, they verify it!

Tools for checking contracts

Some examples include

- ❑ Esc/Java2

- <http://secure.ucd.ie/products/opensource/ESCJava2/>

- ❑ Spec#

- <http://research.microsoft.com/en-us/projects/specsharp/>

- ❑ .NET Contracts

- <http://research.microsoft.com/en-us/projects/contracts/default.aspx>