Module

Errno

Ruby exception objects are subclasses of Exception. However, operating systems typically report errors using plain integers. Module Errno is created dynamically to map these operating system errors to Ruby classes, with each error number generating its own subclass of SystemCallError. As the subclass is created in module Errno, its name will start Errno::.

Exception

StandardError
SystemCallError
Errno::xxx

The names of the Errno:: classes depend on the environment in which Ruby runs. On a typical Unix or Windows platform, you'll find Ruby has Errno classes such as Errno::EACCES, Errno::EAGAIN, Errno::EINTR, and so on.

The integer operating system error number corresponding to a particular error is available as the class constant Errno::error::Errno.

Errno::EACCES::Errno # => 13 Errno::EAGAIN::Errno # => 35 Errno::EINTR::Errno # => 4

The full list of operating system errors on your particular platform is available as the constants of Errno. Any user-defined exceptions in this module (including subclasses of existing exceptions) must also define an Errno constant.

1.9 As of Ruby 1.8, exceptions are matched in rescue clauses using Module#===. The === method is overridden for class SystemCallError to compare based on the Errno value. Thus, if two distinct Errno classes have the same underlying Errno value, they will be treated as

the same exception by a rescue clause.