IO.copy_stream

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EuRuKo2008
2008-03-30

Who am I

- A committer for Ruby

- Interests
  - I/O
  - Unix
  - M17N
  - Regexp
  - Time
  - Portability
  - Complex and Weird Things (such as block args)
  - etc.

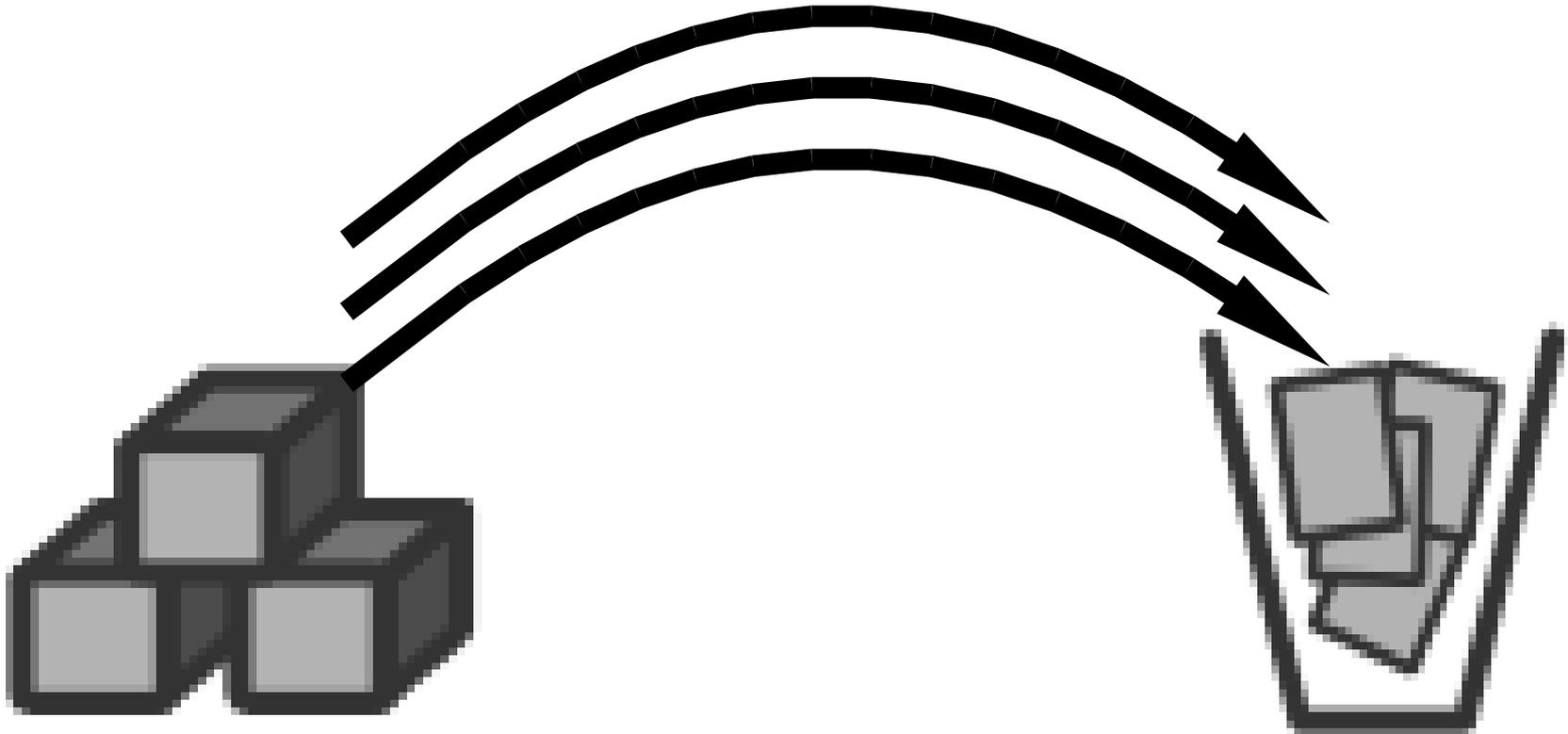# IO.copy_stream(src, dst)

- IO.copy_stream(STDIN, STDOUT)
  copy STDIN to STDOUT

- similar to
  FileUtils.copy_stream(src, dst)

- similar to
  while s = src.read(4096)
    dst.write(s)
  end

Advantages

- Simple : single method without loop
- Written in C : faster
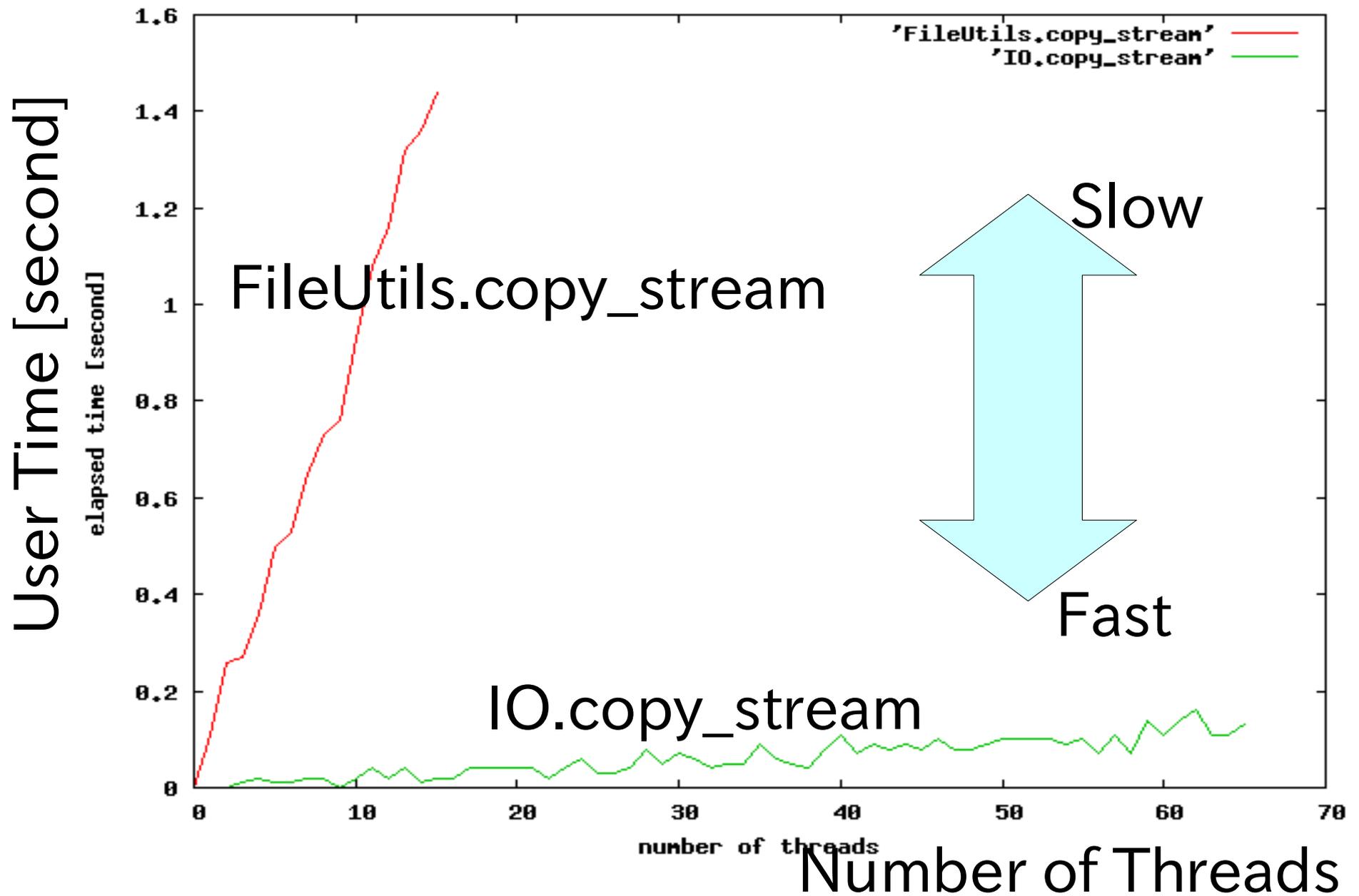- Releases GIL when copy : scales on # of CPUs

Simple Benchmark

transfer concurrently
by IO.copy_stream and threads

big file (44Mbytes)

/dev/null

Simple Benchmark Result

Extra Features

- IO.copy_stream(filename, filename) opens and closes the filenames

- IO.copy_stream(src, dst, len, off) copy length and offset in src

Status

- committed to Ruby 1.9 today
- matz accepted it yesterday at La Fabrika Club

Conclusion

- Simple and Fast way to copy a stream
- It may accelerate file transfer such as HTTP server
- Available on Ruby 1.9 now
- Enjoy!