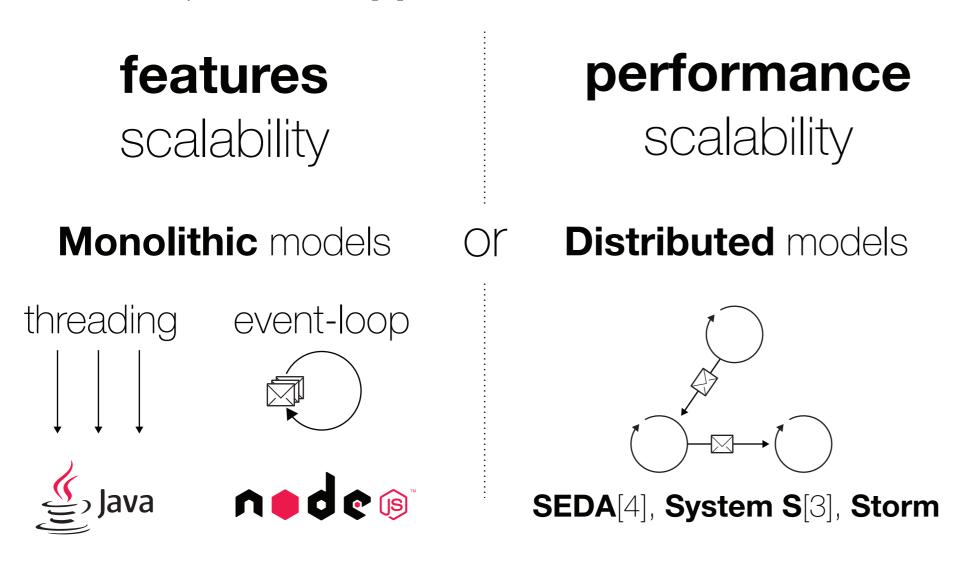
A compiler providing incremental scalability for web application

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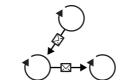
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To develop a web application, one have to choose



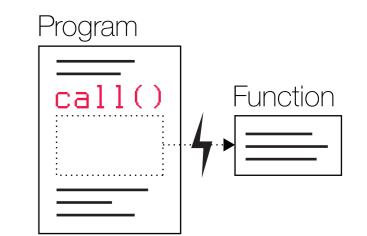
We want to compile into

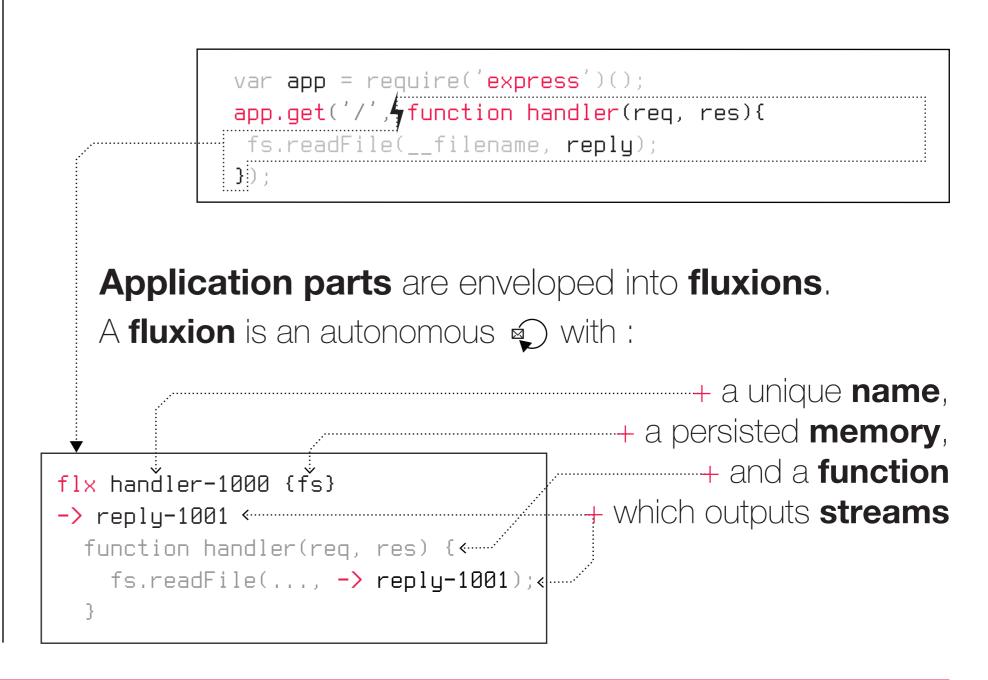


The compiler extracts autonomous parts by searching for rupture points marking them out A Rupture point is a call of a loosely coupled function

In nodes, an asynchronous call is a rupture point.

I/O Operation like fs and express.







SOURCE[1] var app = require('express')(), fs = require('fs'), count = 0; app.get('/', function handler(req, res){ fs.readFile(__filename, function reply(err, data){ count += 1; var code = ('' + data) .replace(/\n/q, '
') .replace(/ /g, ' '); res.send(err II 'downloaded ' + count + ′ times

<code>′ + code + '</code>'); }); }); app.listen(8080); console.log('>> listening 8080');

[1] flx-example: https://github.com/etnbrd/flx-example/tree/1.0. Accessed: 2014-08-22.

[2] Fox, A. et al. 1997. Cluster-based scalable network services.

[3] Jain, N. et al. 2006. Design, implementation, and evaluation of the linear road benchmark on the stream processing core. SIGMOD '06 Proceedings of the 2006 ACM SIGMOD international conference on Management of data.

[4] Welsh, M. et al. 2000. A design framework for highly concurrent systems.





target[1]

var app = require('express')(),

fs = require('fs'),

flx source.js {}

>> handler-1000 [res]

