YXA project

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EUC 2007
YXA at EUC 2004

- SU telephony systems
- SIP background
- Me and Erlang
- YXA at the time

Plans:
- Distributed services
- Policy control
- Event logging
- RFC compliance
- Perimeter defense
Project goals

• Robust SIP server for 10,000's of users
  • Scalable by distributing servers
    • Short time-to-market
  • Interoperability
YXA 1.0
released this week
YXA characteristics

- Specific version requires specific Erlang/OTP version
- Adopts new stuff
  - try/catch
  - orelse in guards
  - EDoc
- Easy to extend/modify
Frameworks

- I Like frameworks:
  - Configuration subsystem
  - User database backends
  - Transports
  - Events
  - local.erl with 87 hooks
  - SIP Event server (RFC3265) framework for packages
Robustness

- 2867 test cases
- Test integrated in release process
- Snapshots and release candidates
- Dialyzer
- Pay close attention to compiler warnings
- SIPit's
Speed

- Who needs speed?
  - Presence
  - Four servers better than 16
  - Fast initial parsing

- Profiling
- Logging

- 70 CPS on old laptop $(70 \times (INVITE + BYE))$
VALUE FOR OTHERS?

- Lots of documented code
  - OTP supervisors, gen_event and gen_servers
  - Binary and string parsing
  - Network code (TCP, UDP, TLS, IPv6 (!))
  - SSL stuff
  - Mnesia
- Well written code I hope
- ./configure && make && make install
Project info

http://www.stacken.kth.se/project/yxa/

svn://anonsvn.it.su.se/yxa/trunk/

BSD license