

News From the OTP TEAM

Kenneth Lundin Erlang/OTP, Ericsson

Erlang User Conference, Stockholm 2016

Outline



- -Community Interaction
- -Planned Releases
- -Details of 19.1
- -Preliminary of 20.0
- –Longer term
- -Split OTP





5

- > Working together with IEUG
 - -Issue tracker
 - -Include PM in OTP
 - -Open backlog

— . . .

> bugs.erlang.org

- Replaces the erlang-bugs mailing list
- Comments from other users appreciated
- OTP team plan to have the whole backlog there.



Community

- Rebar3 included and integrated makes it easier to reuse Erlang packages
- Coop with the Rebar3 maintainers to develop it further
- > Find and get packages from Hex (Elixir)

Steps

- ✓ Move Rebar3 to Erlang on Github
- ■Integrate Rebar3 and OTP further.
- □building OTP applications with Rebar3





Planned Releases

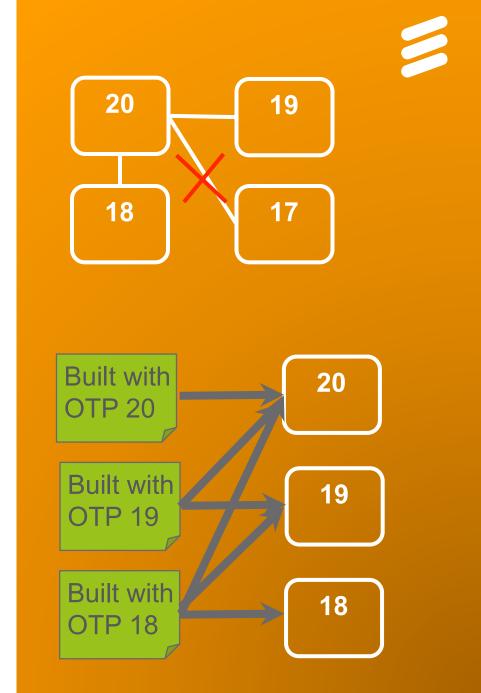
- 1 major release per year(19.0, 20.0, ...)
- 3 planned "correction packages" like 19.1, 19.2, 19.3
- > Emergency packages as needed (19.2.3)
- Maint branch = 19.X
- Master branch = next major =20



OTP 19.0 June 24
OTP 19.1 September 21
OTP 19.2 December
OTP 19.3 March 2017
OTP 20 June 2017

Compatibility

- A major release "speaks" with 2 generations older releases (19.x -> 18.x and 17.x)
- Modules (.beam) built with Major release X can be loaded in release X+2.



Maint Track

3

- "dirty schedulers" enhanced
- API for setting DSCP on distribution sockets
- DSCP setopts for IPv6
- ASN.1 parallel build support
- Dialyzer improvements
- Inets: PUT and DELETE in mod_esi
- > ~27 contributions since 19.0





Master

- Dirty schedulers not experimental
- Scalability optimizations (separate poll sets)
- Native processes (light)
- split OTP in separate repos
- packet mgr step 2
- Doc enhancements
- improved distribution to support >100 Nodes



Master

- floor/1 and ceil/1 as guard
 BIFs
- Distribution:
 - 100+ nodes
 - Heterogenous
 - Distributed Hash Table
- Online Certificate Status Protocol (OCSP)
- DTLS (TLS over UDP and SCTP)
- Compiler pattern matching optimizations



Longer term

-) JIT (based on LLVM)
- > Distribution
 - -More
- Split OTP continued
- > Packet Manager continued
- > Documentation (continued)





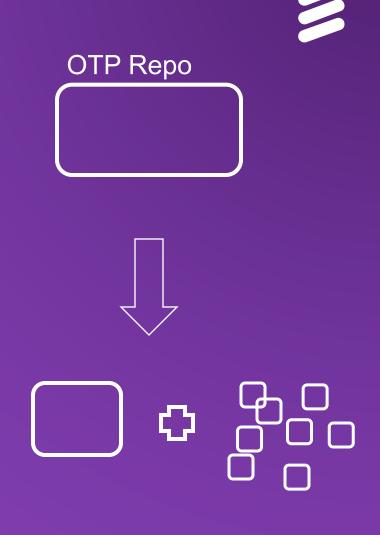
Split OTP

Now

> 1 big OTP Git repo with 52 applications

Split step 1

- > 1 slightly smaller OTP Git repo with ~40 applications
- > +
- Separate repos for remaining applications Built with Rebar3



Split OTP step 2

1 small basic OTP repo with erts, kernel, stdlib, sasl, compiler, rebar3?, ...

Other applications in separate repos and built as packages with rebar3







ERICSSON