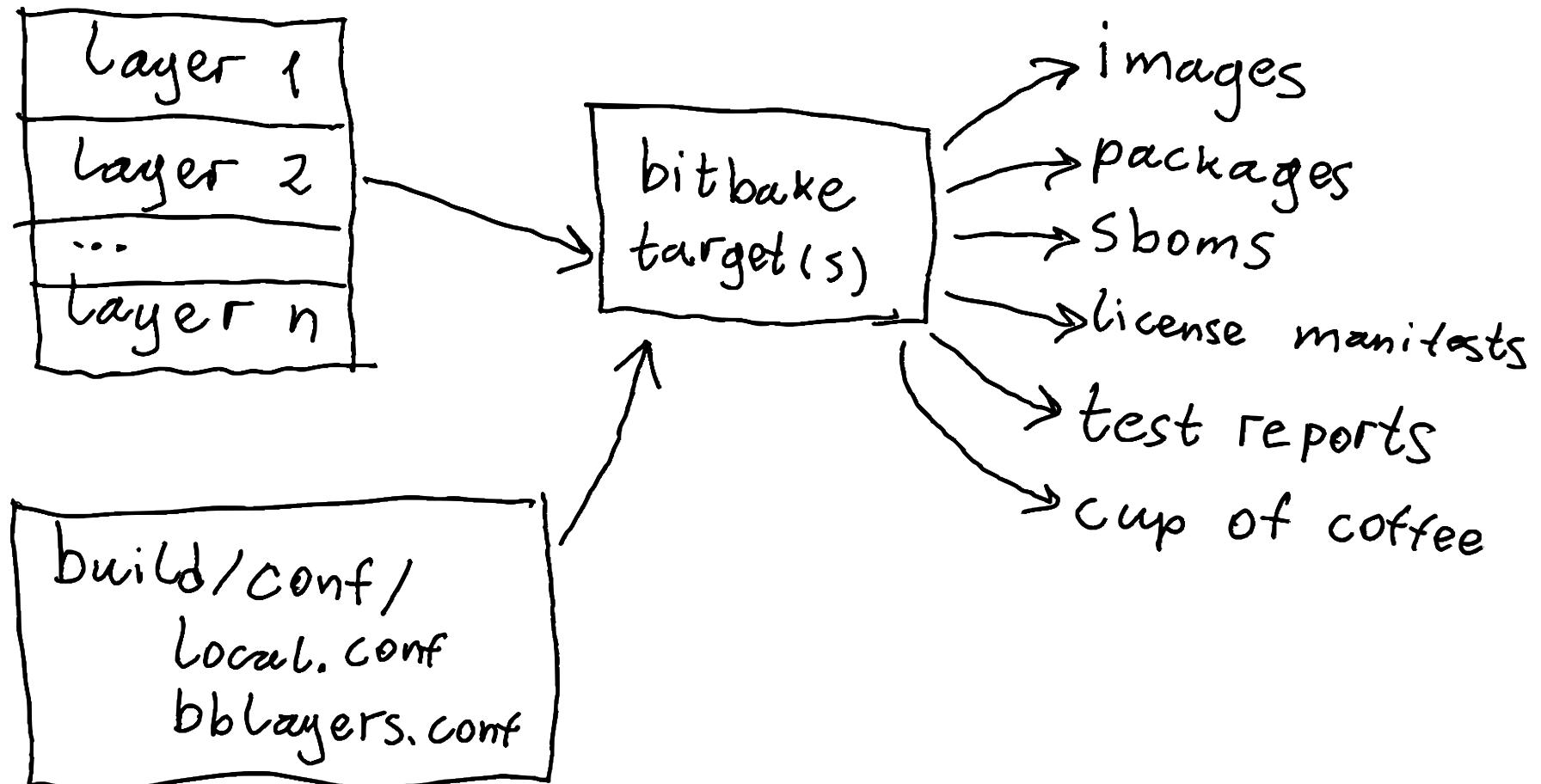
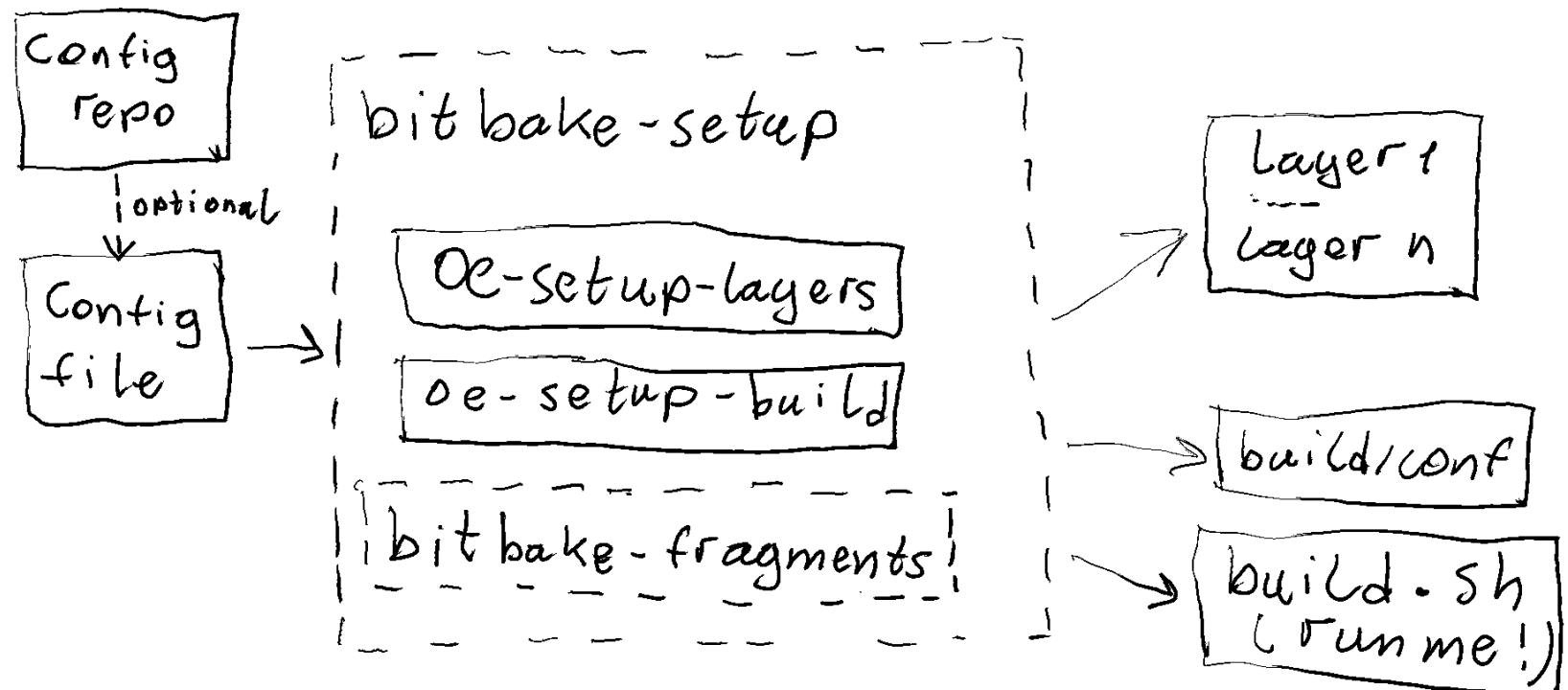


Producing a complete Linux system with a single command (and configuration file) with Yocto

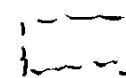
Alexander Kanavin
alex@linutronix.de
alex.kanavin@gmail.com

All of Yocto on one diagram





available in master / Scarthgap



prototype code in review

Bitbake-setup (Prototype! Subject to change!)

<https://github.com/kanavin/bitbake>

- List
 - Lists available configurations
- Init
 - Initializes a yocto build using a specified configuration
- Status
 - Checks if the configuration has been updated upstream
- Update
 - Updates a previously initialized configuration

Configuration repository (also a prototype!)

<https://github.com/kanavin/bitbake-setup-configurations>

 Alexander Kanavin	Add two sample configurations (kirkstone tip, alex's custom)		7dc66af · 4 months ago	 3 Commits
 LICENSE	Initial commit			4 months ago
 README.md	Create README.md			4 months ago
 poky-alex.conf.json	Add two sample configurations (kirkstone tip, alex's custom)			4 months ago
 poky-kirkstone.conf.json	Add two sample configurations (kirkstone tip, alex's custom)			4 months ago

Configuration (a prototype too!)

```
1  {
2      "sources": {
3          "poky": {
4              "git-remote": {
5                  "remotes": {
6                      "origin": {
7                          "uri": "git://git.yoctoproject.org/poky-contrib"
8                      }
9                  },
10                 "rev": "akanavin/sstate-for-all"
11             },
12             "path": "poky"
13         }
14     },
15     "description": "Poky reference distribution, with alex fixes",
16     "configuration": {
17         "bitbake-setup": {
18             "default": {
19                 "description": "Default build configuration",
20                 "template": "poky-default",
21                 "targets": ["bitbake core-image-minimal"]
22             }
23         }
24     },
25     "version": "1.0"
26 }
```

Demo!

```
$ git clone https://github.com/kanavin/bitbake
```

```
$ bitbake/bin/bitbake-setup list
```

```
$ bitbake/bin/bitbake-setup init poky-alex
```

```
$ /home/alex/builds/poky-alex/build/build.sh
```

(when this completes, there will be a complete Linux system produced from source!)

```
$ bitbake/bin/bitbake-setup status ~/builds/poky-alex/
```

```
$ bitbake/bin/bitbake-setup update ~/builds/poky-alex/
```

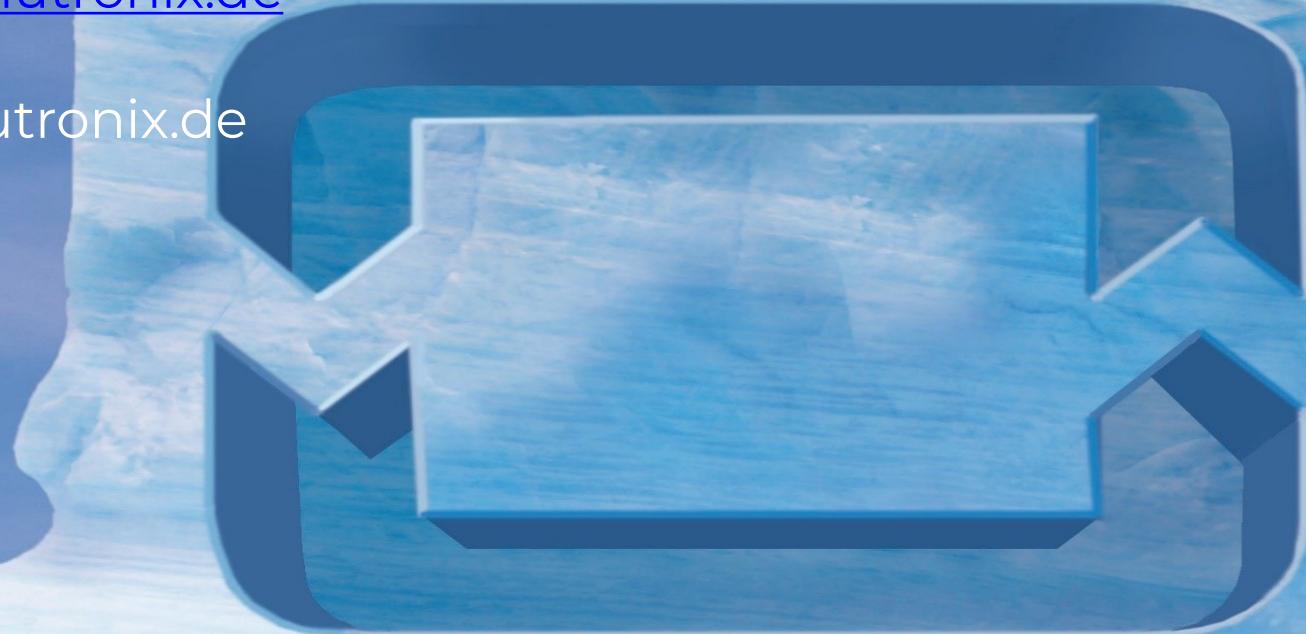
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Thanks for your
attention

Any questions ?