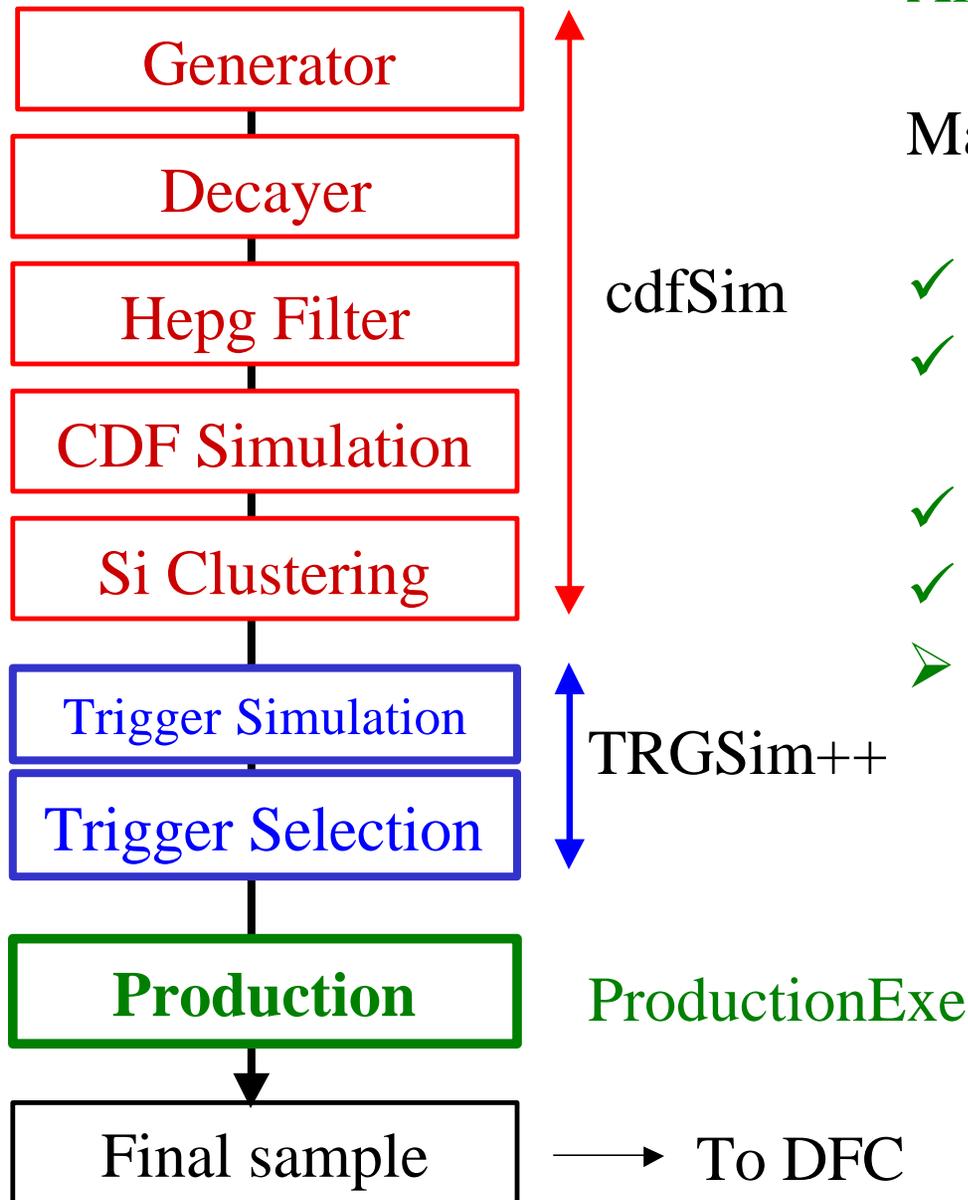


Multi-run, multi-job environment MC production

- Tests on new structure of 5.3.1xxx MC production
- New scripts in repository

MC structure



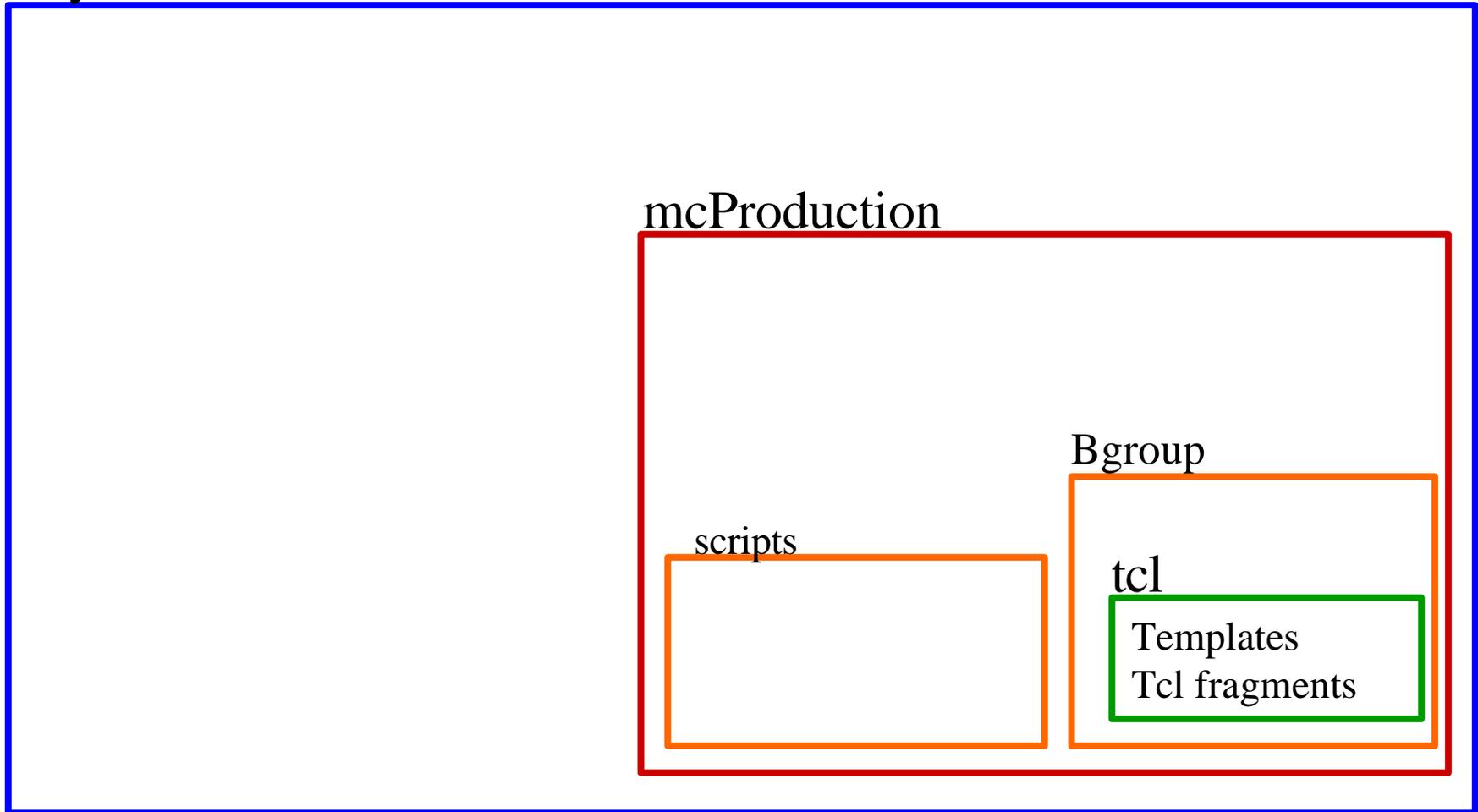
All executable exist (bin)

Main tasks:

- ✓ integrate standard tcl fragments
- ✓ create an environment for bookkeeping
- ✓ easy submission to CAF
- ✓ managing Random Numbers
- *documenting the samples*

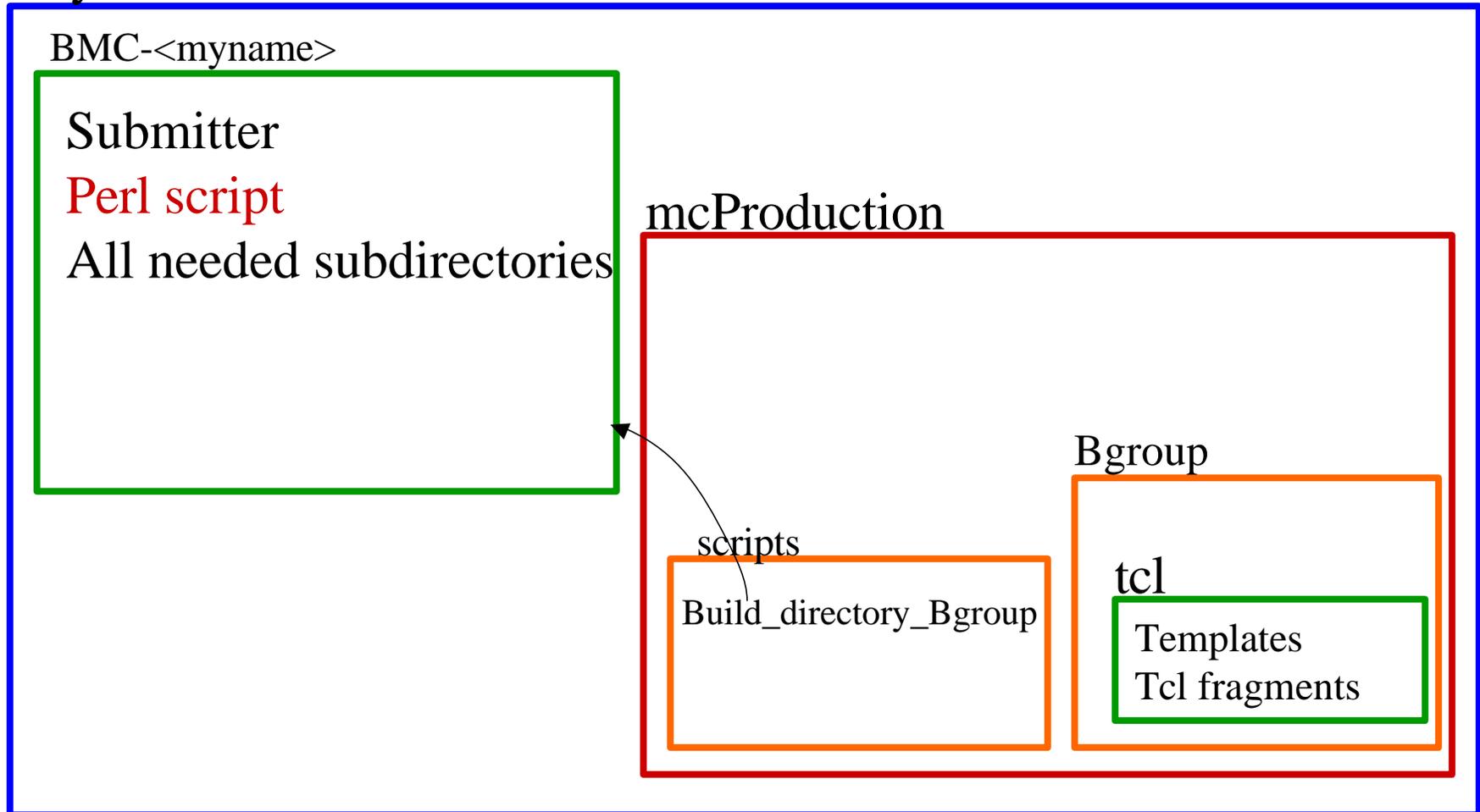
runMC-Bgroup environment

My release



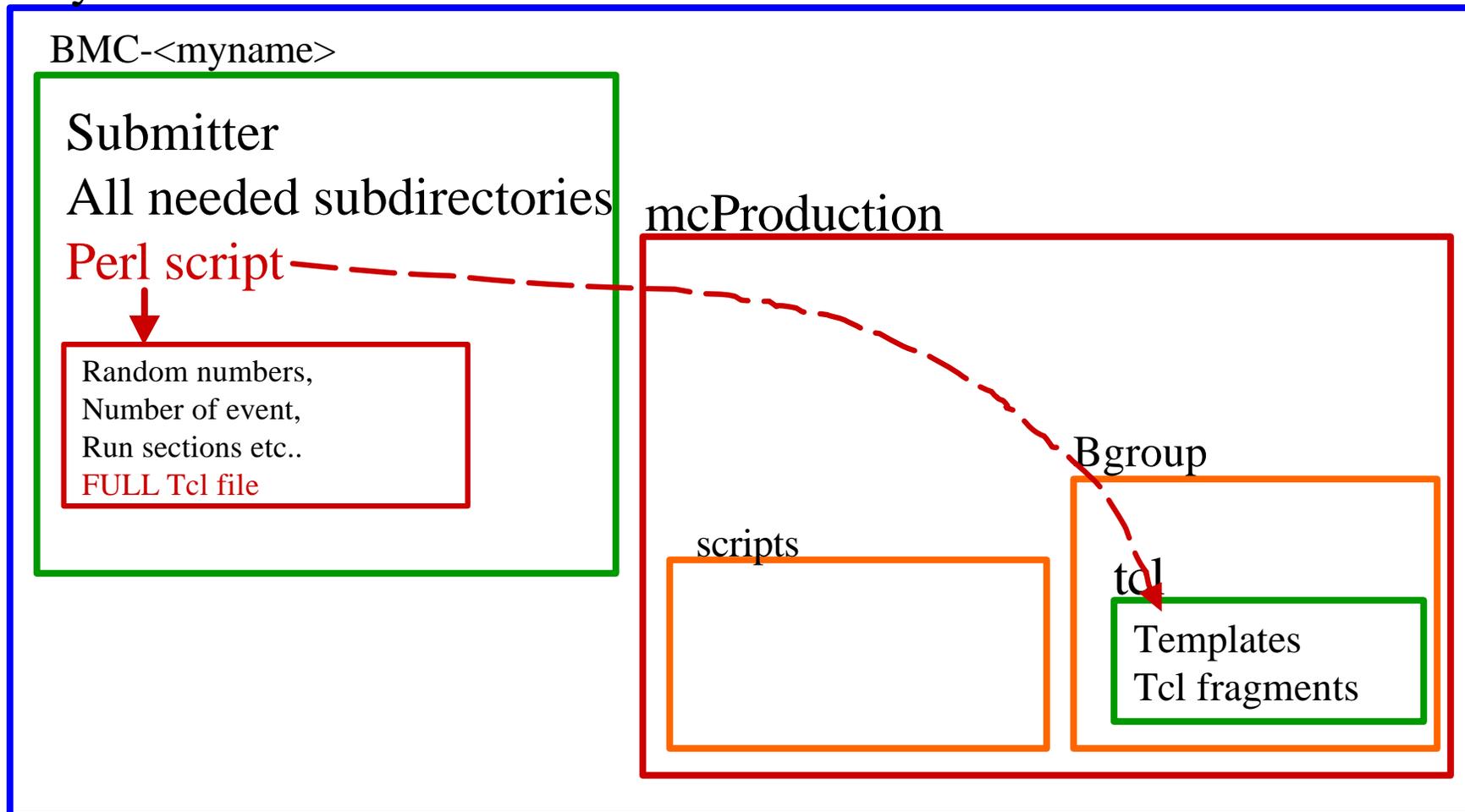
runMC-Bgroup environment

My release



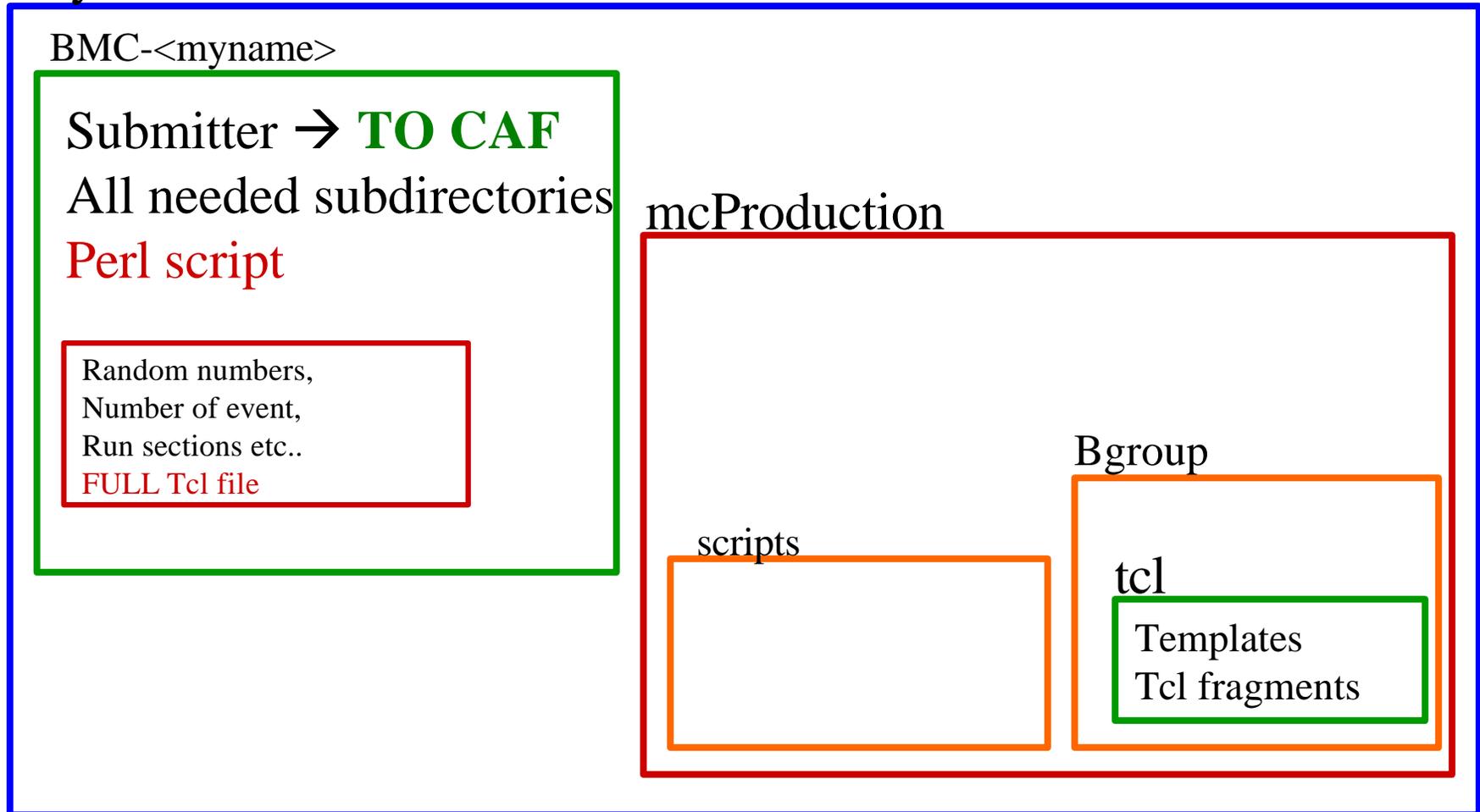
runMC-Bgroup environment

My release



runMC-Bgroup environment

My release



runMC-Bgroup environment

My release

BMC-<myname>

Submitter → **TO CA**

All needed subdirect

Perl script

Random numbers,
Number of event,
Run sections etc..

FULL Tcl file

Job list or sample “plan”

Random Seed files

```
590 Feb 11 20:37 501.jobs
364 Feb 10 16:14 R_501_100_Random_seeds.tcl
364 Feb 10 16:14 R_501_101_Random_seeds.tcl
364 Feb 10 16:14 R_501_102_Random_seeds.tcl
364 Feb 10 16:14 R_501_103_Random_seeds.tcl
364 Feb 10 16:14 R_501_104_Random_seeds.tcl
364 Feb 10 16:14 R_501_105_Random_seeds.tcl
364 Feb 10 16:14 R_501_106_Random_seeds.tcl
364 Feb 10 16:14 R_501_107_Random_seeds.tcl
364 Feb 10 16:14 R_501_108_Random_seeds.tcl
21k Feb 10 16:14 Simulation_501.tcl
```

Full tcl file (no “source”)



runMC-Bgroup environment

My release

BMC-<myname>

Submitter → TO CA

All needed subdirect

Job list or sample “plan”

Random Seed files

```
590 Feb 11 20:37 501.jobs  
364 Feb 10 16:14 R_501_100_Random_seeds.tcl  
764 Feb 10 16:14 R_501_101_Random_seeds.tcl
```

```
#Job Run  RS  Evnts  Offset  random-seed-file  
100 155895 0 1018    0 501/R_501_100_Random_seeds.tcl  
101 155895 1 1018 1018 501/R_501_101_Random_seeds.tcl  
102 155895 2 1018 2036 501/R_501_102_Random_seeds.tcl  
103 155895 3 1018 3054 501/R_501_103_Random_seeds.tcl  
104 155895 4 1022 4072 501/R_501_104_Random_seeds.tcl  
105 156484 0 1226    0 501/R_501_105_Random_seeds.tcl  
106 156484 1 1226 1226 501/R_501_106_Random_seeds.tcl  
107 156484 2 1226 2452 501/R_501_107_Random_seeds.tcl  
108 167186 3 2227 3678 501/R_501_108_Random_seeds.tcl
```

**Luminosity
weighted
samples**

```
# Run      Events  
# 155895 5094 5  
# 156484 4905 4
```

One line per job stores all job-dependant informations, to be used by the submitter.

Standard tcl files can be used as provided by cdfSim, (TrigSim) and ProductionExe

runMC-Bgroup environment

My release

BMC-<myname>

Submitter →

```
> ./submit_BMC 501/501.jobs 108 dataset 501/Simulation_501.tcl &
```

or , for multi-job submission:

```
> ./submit_BMC 501/501.jobs $ dataset 501/Simulation_501.tcl &
```

Parameters:

- Plan file
- Job number (*must be in plan file*)
- Dataset
- Simulation tcl file
- TRGSim++ tcl file for filter part ← yet to be implemented

tcl

Templates
Tcl fragments

runMC-Bgroup environment: plan

- Integrate with SAM for metadata information and file handling.
- Test possibility of multi-run settings in same job (started, need some more time). TRGSim++ seems ok with this. We now have 1600 good runs. Put threshold in number of events (avoid database calls for zero events)
- Automate human-readable (web based) database: parsing log file ? Scripts for final statistics exist, need to be put together. Submitter writes entry.
- Start using it, it is setup is in CVS, mcProduction, it needs testing ! !