



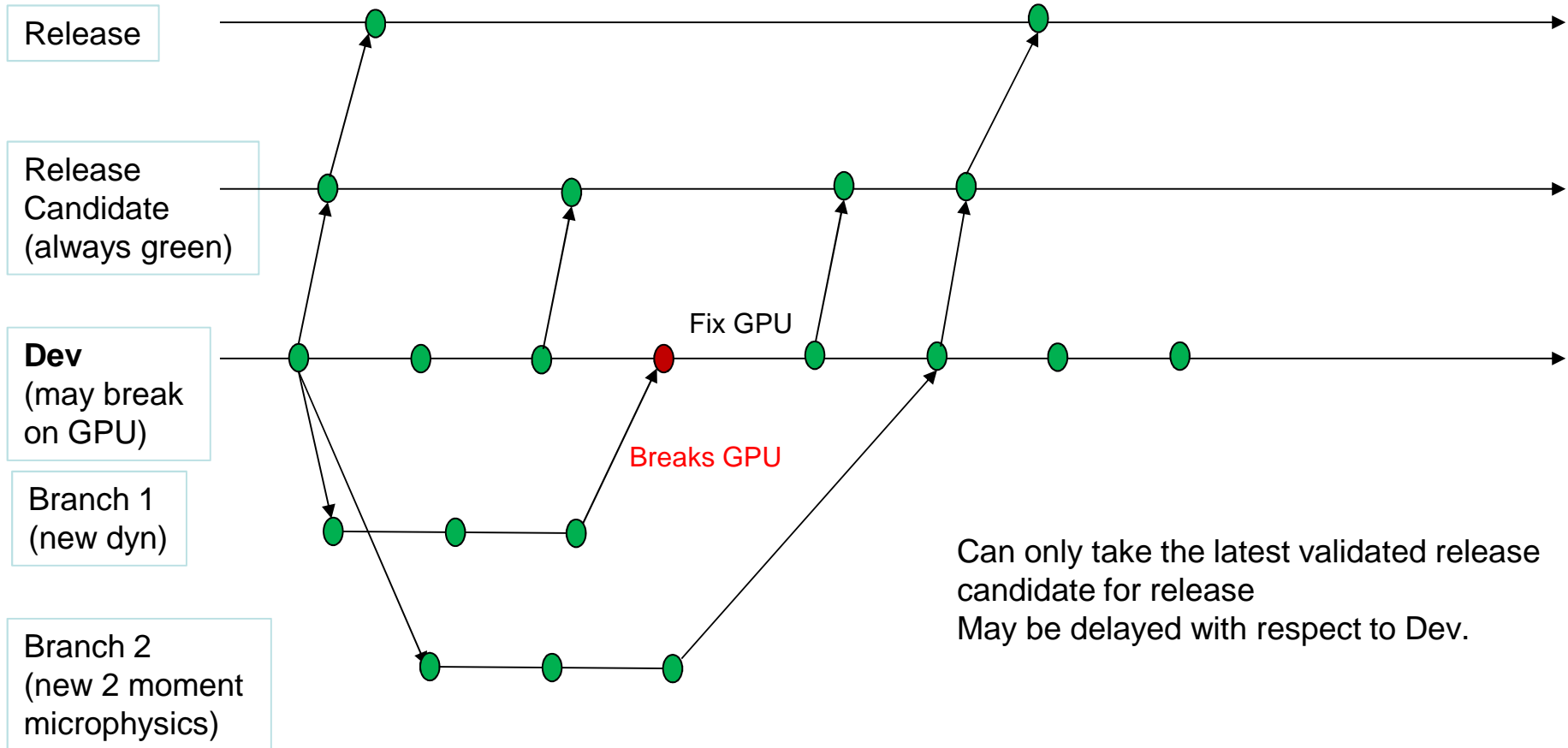
Workflow discussion

- The integration of POMPA work introduces some complexity in the COSMO model development, maintenance : CPU, GPU, single precision, double precision
- In order to keep high productivity and software quality the workflow and communication between COSMO developers need to be adapted.
- The use of a common repository is required to favor collaboration
- Use of automatic testing infrastructure (Jenkins – see Pascal talk)



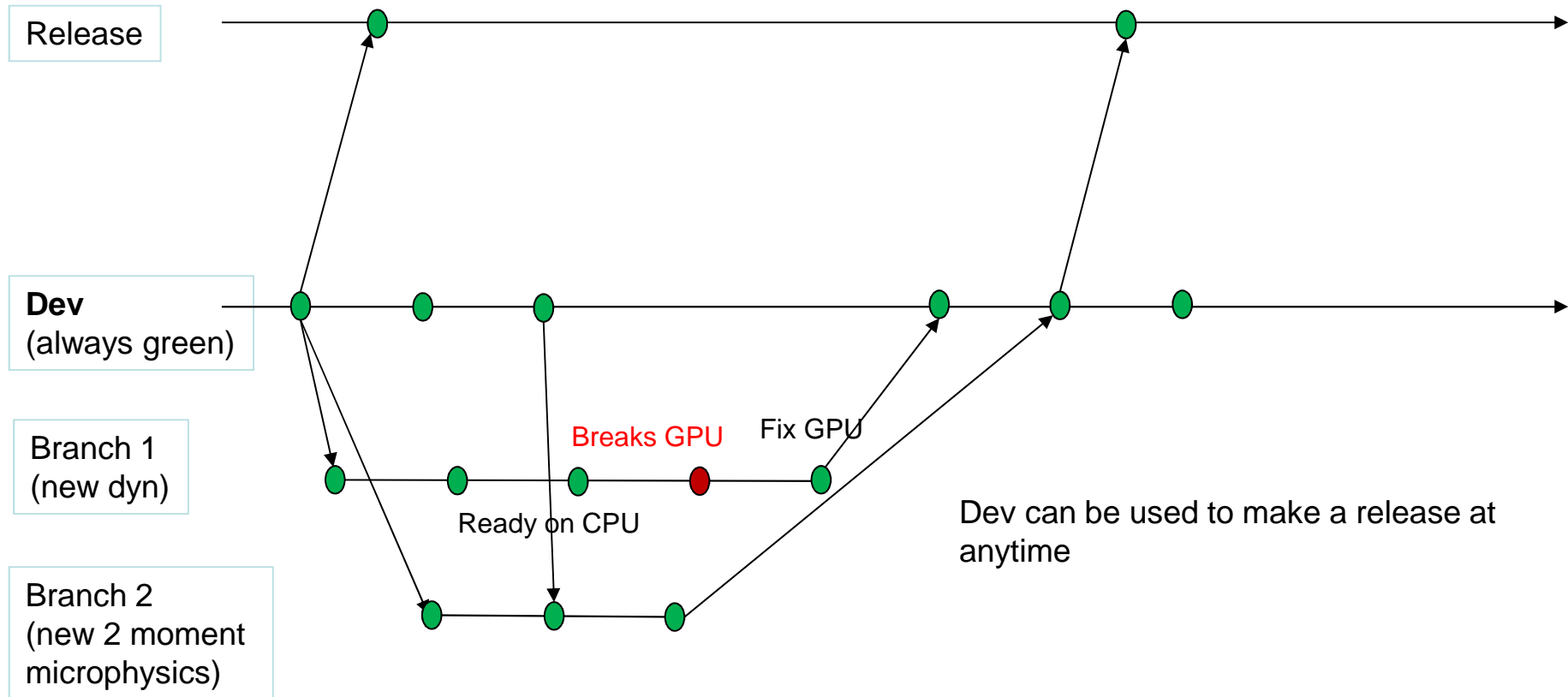
Workflow 1 : all development via SCA

Adaptation to GPU in second step





Workflow 2 : Adaptation to GPU before sending code to SCA





Discussion

- **Which workflow:**
 - 1: Code is fix/checked for GPU after it was sent to SCA. SCA and C++/GPU developer need use common repository
 - 2: Code is ready on both CPU and GPU before beeing sent to SCA: all invloved developer should use common repository
- **Use of revision control system (git or svn ? test users for an evaluation period ?)**
- **Use Jenkins for testing**



- **How to keep GPU/CPU single/double in sync ?**
 - Change in existing code should always be synchronized in C++/GPU code before any official release
ex: new coefficient in the dynamic
 - New features, not impacting currently GPU namelists, may not be ported to GPU, ex: new 2 moments microphysics
SMC should decide which new features are ported to GPU