CRaC Project

Welcome to the CRaC Project!

The CRaC (Coordinated Restore at Checkpoint) Project researches coordination of Java programs with mechanisms to checkpoint (make an image of, snapshot) a Java instance while it is executing. Restoring from the image could be a solution to some of the problems with the start-up and warm-up times. The primary aim of the Project is to develop a new standard mechanism-agnostic API to notify Java programs about the checkpoint and restore events. Other research activities will include, but will not be limited to, integration with existing checkpoint/restore mechanisms and development of new ones, changes to JVM and JDK to make images smaller and ensure they are correct.

Resources

- CRaC Project
- Repository
- Mailing list: crac-dev (archives)
- JBS issues
- Early-Access Builds
- Latest Javadoc

Project structure

- master branch - synced automatically with the master branch of openjdk/jdk
- crac - java.crac Java API and proof-of-concept implementation

Contributing

Testing

Download the EA build and give it a try! There is a work-in-progress HOWTO.

Making changes to the code

Minor changes (build failures fixes, typos, ...) can be pushed directly. Pull Request is a recommended way since it will check the build succeeds.

For new features and major changes, use Skara:

- create a JBS issue in JDK project with Affected and Fix Version equal to repo-crac (per convention please start the Summary with "[CRaC] ")
- make a Pull Request following suggestions from the Skara bot (Change must not contain extraneous whitespace, Commit message must refer to an issue, Change must be properly reviewed)
- wait for the peer-review (all members of the project can approve the PR)

Recent space activity

Volker Simonis (508 days ago)
Anton Kozlov (788 days ago)
Iris Clark (804 days ago)