

# Main

## 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](#)

[Main](#) updated Jul 06, 2022 [view change](#)



[Anton Kozlov](#)

[Main](#) updated Sep 29, 2021 [view change](#)



[Iris Clark](#)

[Main](#) updated Sep 13, 2021 [view change](#)

### Space contributors

- [Volker Simonis](#) (654 days ago)
- [Anton Kozlov](#) (934 days ago)
- [Iris Clark](#) (950 days ago)