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## CIAO 3.2.1 Release Notes

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The CIAO 3.2.1 patch contains updated versions of `acis_build_badpix` and `acis_run_hotpix`. For more information on using these tools, please see the [Identify ACIS Hot Pixels and Cosmic Ray Afterglows thread](#), which has been updated to reflect the changes in this release.

- `acis_build_badpix` is updated to write a correct header in the output bad pixel file.
- `acis_run_hotpix` is updated to accept a parameter block file (`pbkfile` parameter). The `ahelp` file for the tool has been updated.

Make sure to delete any existing parameter file (`acis_run_hotpix.par`) in `~/cxcds_param` so that you pick up the CIAO 3.2.1 default version, which has a new parameter (`pbkfile`).

If you created a new bad pixel file with `acis_run_hotpix` in CIAO 3.2 *and the tool did not report any errors*, it is not necessary to recreate the file in CIAO 3.2.1.

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