



Version 5.2

Release Notes

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CDH AG
Competence Center Vibration and Acoustics
Breitwiesenstraße 19
70565 Stuttgart
Germany

E-Mail: support@cdh-ag.com
URL: <http://www.cdh-ag.com>

CDH Aktiengesellschaft
Aufsichtsratsvorsitzender: Dr Theodor Seitz
Vorstand: Christian Pieper, Dr. René Visser
Sitz und Registergericht: Augsburg, HRB 19468

A) Enhancements in CDH/OPTRAN Version 5.2

Support for MSC Nastran v2020, v2020.1, v2021.1 and v2021.2.

CAUTION: As of the current Optran 5.2 release, the RHEL/CentOS v6.x OS is no longer supported.

Minor improvements

1. Improved handling of file names containing multiple dots. In case of multiple dots in filename for example as in "box.tall.dat", Optran now names all results files correctly as "box.tall" instead of previously just "box".
2. The Optran scratch directory name (command line parameter) has been changed to SCRATCH which is more descriptive compared to the former SCRDIRX naming.
3. Introduction of command line parameter CSVEIGV to control the creation of modal information files exported by FastFRS. This parameter can only be used with AMLS5.2r122+. Setting CSVEIGV=YES will create "modal_info_struct.csv" and "modal_info_fluid.csv" files containing eigenvalues, eigenfrequencies, modal masses, modal stiffnesses and modal damping information.

B) Bug-Fixes

1. Allow input loads from ACTRAN in INPUTT2 and INPUTT4 file types.
2. Ensure that the punch output of panel participation factors is in the same alphabetical format as normal Nastran.
3. In a special case of different frequency ranges for each subcase, and the table had zero amplitude at some loads applied at some "DAREA" and frequencies while not at others, Optran gave incorrect answers. This special case has been corrected.
4. Fixed a number of Autorequest errors for jobs with PFMODE for structure and fluid with option ITEMS=MODERESP. Sometimes the Autorequest file was incomplete (not all subcases were included) or output(smpf=moderesp) was missing. This behavior has been fixed.
5. AMLS 5.2r122 failed with Optran 5.1 because of a scripting error that did not account for file name differences in the AMLS release. This has been fixed.
6. Implementations of I1 integration method for SMPF of type acceleration (resp=acce) were incorrect. The SMPF values being

integrated were for displacement response and not acceleration response. This has been fixed. Similarly, csv output of SMPFs of type acceleration were not of type of acceleration but of type displacement. This has been fixed as well.

7. In case of AMLSODS = YES, the fluid operational shape was not being calculated correctly. This has been fixed.
8. Automatic choice of FastFRS low-rank/high-rank method was not correctly handled. This has now been fixed.

C) Supported Nastran versions and CDH software versions

MSC.Nastran™

MSC.Nastran Version 2014.1 (i4/i8); 2016.1 (i4/i8), 2016.1.1 (i4/i8); 2017.1 (i8); 2017.1.2 (i8), 2018, 2018.1, 2018.2, 2019.0, 2019.1, 2020, 2020.1, 2021.1, 2021.2

CDH Software:

CDH/AMLS Version 5.2 r086 - 5.2.r122
CDH/FastFRS Version 2.2 r086 - 2.2.r122

Operating System:

RHEL/CentOS 7+

D) Contact Information

For any technical issues associated with CDH/OPTRAN, please contact your local CDH office or send an e-mail to support@cdh-ag.com.