

## 1 INTRODUCTION

### 1.1 Overview

*FLAC<sup>3D</sup>* is a three-dimensional explicit finite-difference program for engineering mechanics computation. The basis for this program is the well-established numerical formulation used by our two-dimensional program, *FLAC*.<sup>\*</sup> *FLAC<sup>3D</sup>* extends the analysis capability of *FLAC* into three dimensions, simulating the behavior of three-dimensional structures built of soil, rock or other materials that undergo plastic flow when their yield limits are reached. Materials are represented by polyhedral elements within a three-dimensional grid that is adjusted by the user to fit the shape of the object to be modeled. Each element behaves according to a prescribed linear or nonlinear stress/strain law in response to applied forces or boundary restraints. The material can yield and flow, and the grid can deform (in large-strain mode) and move with the material that is represented. The explicit, Lagrangian calculation scheme and the mixed-discretization zoning technique used in *FLAC<sup>3D</sup>* ensure that plastic collapse and flow are modeled very accurately. Because no matrices are formed, large three-dimensional calculations can be made without excessive memory requirements. The drawbacks of the explicit formulation (i.e., small timestep limitation and the question of required damping) are overcome by automatic inertia scaling and automatic damping that does not influence the mode of failure. *FLAC<sup>3D</sup>* offers an ideal analysis tool for solution of three-dimensional problems in geotechnical engineering.

*FLAC<sup>3D</sup>* is designed specifically to operate on Microsoft Windows systems, and is currently supported on Windows XP (including XP64), Windows Vista (including Vista 64) and Windows 7 (32- and 64-bit). Calculations on realistically sized three-dimensional models in geo-engineering can be made in a reasonable time period. For example, a model containing 125,000 zones of a Mohr-Coulomb material can be generated within 500 MB RAM. The runtime to perform 5000 calculation steps for a 10,000 zone model of Mohr-Coulomb material is roughly 1.25 minutes on a 2.7 GHz Intel Core i7 CPU.† The number of calculation steps required to reach a solution state with the explicit-calculation scheme can vary, but a solution typically can be reached within 3000 to 5000 steps for models containing up to 10,000 elements, regardless of material type. (The explicit-solution scheme is explained in Section 1 in **Theory and Background**.) With the advancements in floating-point operation speed, and the ability to install additional RAM at low cost, it should be possible to solve increasingly larger three-dimensional problems with *FLAC<sup>3D</sup>*.

*FLAC<sup>3D</sup>* can be operated from either a command-driven mode or a graphics menu-driven mode. The default command-driven mode is very similar to that used by other Itasca software products. You will find that most of the commands are the same as, or three-dimensional extensions of, those in *FLAC*. A menu-driven, graphical user interface is also available in *FLAC<sup>3D</sup>* for performing plotting, printing and file access.

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<sup>\*</sup> Itasca Consulting Group Inc. *FLAC (Fast Lagrangian Analysis of Continua)*, Version 7.0, 2011.

† See Section 6 for a comparison of *FLAC<sup>3D</sup>* runtimes on various computer systems.

# Flac3d User Manual

**L Darling-Hammond**



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