Genetic Algorithm and Direct Search Toolbox Release Notes

Note No significant new features have been introduced for Version 1.0.3 of the Genetic Algorithm and Direct Search Toolbox. The product is essentially unchanged from Version 1.0.2.

The Genetic Algorithm and Direct Search Toolbox 1.0.2 Release Notes describe the following change, introduced in Version 1.0.2.

Change to Pattern Search Option MaxIteration

In Version 1.0.2, the name of the pattern search option `'MaxIteration'` has been changed to `'MaxIter'`, to conform with the Optimization Toolbox option `'MaxIter'`.

If you created and saved an `options` structure with an earlier version of the Genetic Algorithm and Direct Search Toolbox, you can still use the structure with the current version. However, MATLAB returns the following warning

```
Warning: Options 'MaxIteration' is obsolete; use 'MaxIter'
instead.
```

If you are upgrading from the Genetic Algorithm and Direct Search Toolbox Version 1.0, you should also see "Genetic Algorithm and Direct Search Toolbox 1.0.1 Release Notes" on page 1-1.

Printing the Release Notes

If you would like to print the Release Notes, you can link to a PDF version.

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Genetic Algorithm and Direct Search Toolbox 1.0.1 Release Notes

New Features

There were no significant updates to the Genetic Algorithm and Direct Search Toolbox since Version 1.0.

Note Version 1.0 was released in Web download form after the release of Release 13 with Service Pack 1.

Major Bug Fixes

The Genetic Algorithm and Direct Search Toolbox 1.0.1 includes one bug fix made since Version 1.0.

Status and Results Pane Now Scrolls Correctly

In Version1.0, when you clicked in the **Status and results** pane in either the Genetic Algorithm Tool or the Pattern Search Tool, the scroll bar no longer scrolled automatically to the bottom of the pane, so that the most recent results were not visible in the pane. This has been fixed in Version 1.0.1.

Known Software and Documentation Problems

This section describes a known software problem in Version 1.01.

Debugging an M-File While Performing an Optimization

If you try to debug an M-File in the Editor/Debugger while at the same time doing either of the following tasks, MATLAB might return Java exception messages to the command line or might error.

- Running the genetic algorithm on a problem in the Genetic Algorithm Tool, the graphical user interface (GUI) to the genetic algorithm
- Performing a pattern search on a problem in the Pattern Search Tool, the pattern search GUI

This problem only arises when using the GUIs. It does not affect the command-line functions ga and patternsearch, which implement the genetic algorithm and pattern search, respectively. To avoid getting Java exception messages or errors, debug your M-files using these command-line functions.

Importing and Exporting Options and Problems, in the online documentation for the Genetic Algorithm and Direct Search Toolbox, explains how to export a problem to the MATLAB workspace, in case you need to debug one of the M-files the problem uses.