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# Acro User Manual

## Version 1.0

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# 1 Introduction

This document provides a user's guide for the Acro software library. The Acro Project is an effort to facilitate the design, development, integration and support of optimization software libraries.

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multistart local search and DIRECT. Coliny is a revision of the older SGOPT library, which is now deprecated.

9. **glpk**



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## 4 Installation

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1. Pipe the configuration output into `acro/test/config.out` and generate a `test/config.xml` summary file
  2. Pipe the build output into `acro/test/build.out` and generate a `test/build.xml` summary file (this includes builds of Acro executables and test executables)



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We are grateful to Mike Langman for graciously allowing us to use his beautiful Sedge Warbler illustration. Other illustrations and photographs by Mike Langman are available at [Mike Langman Bird Art](#).



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<code>[-with-compiler= &lt;gcc,CC&gt;]</code>	Sets up a specific compiler; The native compiler is the default.
<code>[-target= &lt;solaris&gt;]</code>	Optional flag to specify the target machine that you are cross-compiling for.
<code>[-site= &lt;snl980&gt;]</code>	Specifies the site-specific locations for MPI, etc.
<code>[-with-debugging]</code>	Turns on the DEBUGGING macro and sets the OPTIMIZATION macro to <flag> (code is compiled with -g by default).
<code>[-with-mpi]</code>	Turns on the use of the MPI package.
<code>[-with-mpe]</code>	Turns on the use of the MPE package.
<code>[-with-swig]</code>	Enables the use of swig to wrap Acro packages for use with the Python scripting language.









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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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