**Summary of Software Disclosure**

**Title of Software Program**

<table>
<thead>
<tr>
<th>Short Name or Acronym:</th>
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<table>
<thead>
<tr>
<th>Version No.:</th>
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</table>

**Software Disclosure category**

Please select the one category that best describes the invention.

**Primary Technology Class**

Description Abstract

<table>
<thead>
<tr>
<th>Primary Contact</th>
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<thead>
<tr>
<th>Organization</th>
<th>Name</th>
<th>Email</th>
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</table>

**Primary Contact Phone**

**Features, Advantages, and Interested Parties**

Describe possible uses for the software, including commercial and non-commercial uses:

<table>
<thead>
<tr>
<th>Features, Advantages, and Interested Parties</th>
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</table>

**Funding**

Type of funding - Check the applicable box(es) below & provide the requested information for the funding source(s) for this software:

- DOE Contract DE-AC02-05CH11231 applies, provide Project ID
- Exascale Computing Project (ECP)
- Office of Advanced Scientific Research (OASCR)
- Accelerated Strategic Computing Initiative (ASCI)
- Joint BioEnergy Institute (JBEI)
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Joint Center for Artificial Photosynthesis (JCAP)
Joint Center for Energy Storage Research (JCESR)
Cooperative Research and Development Agreement (CRADA)
Strategic Partnerships Project (SPP)
Subcontractor
Other Funding Source

A. DOE

<table>
<thead>
<tr>
<th>DOE Program Manager</th>
<th>Address</th>
<th>Telephone</th>
<th>Email</th>
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</table>

If no DOE Program Manager, please explain.

If no DOE Program Manager, please explain.

B. Non DOE, including Strategic Partnership Project

<table>
<thead>
<tr>
<th>Funding Type</th>
<th>Project ID and Activity Code</th>
<th>BNR Code</th>
<th>Grant or Agreement Number</th>
<th>Sponsor Name</th>
<th>Address</th>
<th>Telephone</th>
<th>Email</th>
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C. Other

Describe:

Do you reasonably expect future or continuing funding? Yes or No

Source:

Do you intend to distribute this code outside of LBNL or UC? Yes or No

Do you intend to distribute this code outside of LBNL or UC? Yes
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If yes, when and how do you intend to distribute? An IPO licensing associate will contact you regarding distribution.

Software History

A. History: Is the Software a later version, or a derivative of an earlier LBNL software version? Yes or NO
If yes, please identify the version and describe:

B. Third Party Related and/or Auxiliary Software:

- Does the software *include* third party software? Yes or No
- Does the software *require* the use of third party software (e.g. scripts)? Yes or NO
- Is the software a *derivative* work of third party software? Yes or NO

It is important that you identify in the table below:

<table>
<thead>
<tr>
<th>Name of Original Software</th>
<th>Version</th>
<th>How used, e.g., Dynamic/Static library, tool</th>
<th>Modified or Unmodified?</th>
<th>Name of Developer/Licensor</th>
<th>License Type, e.g., BSD, GPL, MIT</th>
<th>If to be distributed by LBNL or not</th>
<th>Repository Link</th>
</tr>
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C. Was any portion of the software written by a subcontractor or non-LBNL employee (including developers listed on this form who were not employed at LBNL at the time the code was written)? Yes or No

If Yes

a. Please supply the name(s) and contact information in the below table.
b. Please attach the actual Subcontract Agreement (the “contract”) to this form.

Subcontractor Name and email

Export Control
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Review of software for export control restrictions is a DOE requirement managed by IPO. Where possible, please provide the information requested below.

A. Prior Export Control Review? – Has the software or the project/contract funding the software’s development (e.g. WFO, CRADA, etc.) been through export control review previously? Yes or NO

If yes, please provide the prior export classification determination and indicate the author of the determination.

B. General field of research of the software author(s) (for example, compact high density batteries)

C. Does the software have a potential “dual-purpose” application in any of the following areas?
   Please indicate the best answer for each area:
   1. Military/Defense/National Security  Yes or No or Unknown
   2. Nuclear Proliferation (e.g. enrichment technology) Yes or No or Unknown
   3. Chemical or Biological Warfare (e.g. toxins, infectious agents) Yes or No or Unknown
   4. Missile Technology Yes or No or Unknown
   5. Communications Intercepting Technology Yes or No or Unknown
   6. Aircraft Yes or No or Unknown
   7. Encryption Yes or No or Unknown
   8. Spacecraft or Satellites Yes or No or Unknown
   9. Sensors or Lasers Yes or No or Unknown
   10. Navigation or Avionics Yes or No or Unknown
   11. Submersible Vessels, UAVs or Drones Yes or No or Unknown
   12. Directed Energy or other Weapons Yes or No or Unknown
   13. Marine Yes or No or Unknown

Please provide additional information here to explain any of your answers above:

D. Background Intellectual Property? - Does the software include any of the following:
   1. Non-OSS code Yes or NO
      If “Yes”, please list all non-OSS code and export classifications if known:
   2. Proprietary Information (e.g. libraries, data sets, sponsor data) Yes or NO
      If “Yes”, please provide details and owners of the proprietary information:
# Software Disclosure & Abstract Form

## PRODUCT MEDIA/FORMAT and LOCATION/TRANSMISSION

<table>
<thead>
<tr>
<th>A. Hardware Requirements</th>
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<tbody>
<tr>
<td>PC</td>
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<tr>
<td>MAC</td>
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<tr>
<td>Supercomputer</td>
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<tr>
<td>Multi-platform</td>
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<tr>
<td>Mainframe</td>
</tr>
<tr>
<td>Workstation</td>
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<tr>
<td>Unix Workstation</td>
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<tr>
<td>Other Requirements</td>
</tr>
</tbody>
</table>

## Software Requirements

1. OPERATING SYSTEM/VERSION:
2. COMPILER/VERSION:
3. LIMITATIONS/RESTRICTIONS/TIMING REQUIREMENT ESTIMATE:
4. OTHER SPECIAL REQUIREMENTS:
5. RELATED/AUXILIARY SOFTWARE:
6. TYPE(S) OF FILES:
   - Source Code
   - Object Library
   - Executable Module(s)
   - Compilation Instructions
   - Sample Problem Input Data
   - Control Information
   - Program Flow Data
   - Installation Instructions
   - Make File
   - Text Library
   - User Guide
   - Auxiliary Materials
   - Linking Instructions
   - Sample Problem Output Data
   - Program Flow Diagram
   - Programmer Documentation
   - Other

## References:

List citations of pertinent (including technical) publications by author, title, report number, barcode, or order number (if available) and date. References are to be broken down into two groupings: 1) reference documents provided with the submittal package and 2) additional background reference materials generally available.
### C. Code Location
1. Type: DVD
   - Electronic
   - QUANTITY: CAPACITY:
2. FORMAT: PC
   - MAC
   - UNIX (Tar Format)
   - SUN
3. LOCATION/TRANSMISSION:
   - Repository Link:

### D. Documentation Type Information
1. TYPE: USER MANUAL
   - READ ME FILE
   - OTHER
2. FORMAT: ELECTRONIC
   - PAPER
   - OTHER
3. LOCATION/TRANSMISSION:
   - Repository Link:

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**BUSINESS REVIEW AND COPYRIGHT REGISTRATION INFORMATION**

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**Developer(s) Information**

**Developers & electronic signatures**

<table>
<thead>
<tr>
<th>Contributor:</th>
<th>Division/Employer</th>
<th>Name</th>
<th>Email</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
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