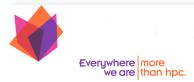
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# SC20 Workshop: PyHPC 2020 Submission Form

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Required fields are shown in red.

#### Title

Enter your title. Please use standard title capitalization. Use initial-caps for most words except prepositions. Also use initial-caps for both parts of hyphenated words.

Title

Accelerating Microstructural Analytics with Dask for Volumetric X-ray Imaging

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#### **Abstract**

Indicate paragraph breaks by a blank line in the text field; all other text formatting will be lost.

Abstract (Maximum 250 words)	t (Maximum 250 words) 0 words	
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Upload your paper in PDF format only. Paper submissions must be a minimum of 6 pages, with an advised maximum of 10 pages including regular appendices but excluding references and any (optional) Artifact Description/Artifact Evaluation (AD/AE) appendices (please see next section). Submissions will be assessed solely based on the paper submission. Please note that all accepted papers will be published in the IEEE TCHPC Proceedings. The formatting instructions are available at the IEEE website. You can also use the template online on Overleaf.

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## Reproducibility Information: Artifact Description (AD)/ Artifact Evaluation (AE)

PyHPC supports SC's reproducibility initiative. PyHPC submitting authors are encouraged (but not forced) to complete this section to describe all computational artifacts their results rely on: software, data, and/or hardware. By clicking yes, you will be asked to answer additional questions related to your artifacts. By answering the questions, we will automatically generate the AD for your paper. No other action will be required. If your paper used computational artifacts but you prefer to not provide them, select "Wish not to provide". If your paper used no computational artifacts, respond "No" to the first question.

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Are there computational artifacts such as datasets, software, or hardware associated with this paper?

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#### **Artifact Description (AD)**

<u>Note:</u> The AD appendix consists of the following sections, including *Artifacts Available* and the *Experimental Setup/ Modifications*.

Summarize the experiments reported in the paper and how they were run. (Example: We ran the NAS Parallel Benchmarks v3.3.1 on NERSC's Cori supercomputer with both Cray's version of MPICH 3.2.1 and with our SuperPGAS communication layer (v0.2), as described in the paper.). MathJax is enabled so you can enter LaTeX mathematical notation within \(\((\(\)\)\)) or \\[\((\)\)\].

	ode using dask on NERSC's Cori supercomputer, which enable running on the back end as described in the paper. The able to run on AWS.
Artifacts Available  "Available" means that the provided URLs pro archived and have a global, unique identifier.	operly resolve, and that the author-created artifacts are persistently
If you need further information, you can refe https://www.acm.org/publications/policies/a	r to the ACM web page that SC20 is following: rtifact-review-badging
<b>Software Artifact Availability:</b> see https://opensource.org/licenses/alphabetical	<ul> <li>All author-created software artifacts are maintained in a public repository under an OSI-approved license.</li> <li>Some author-created software artifacts are NOT maintained in a public repository or are NOT available under an OSI-approved license.</li> <li>There are no author-created software artifacts.</li> </ul>
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ne experimental setup, and modifications made for the paper	
whatever is relevant to your paper and leave the rest blank.	
Relevant hardware details, e.g., system names, makes, models, a components such as CPUs, accelerators, and filesy	
Operating systems and versions (e.g., "Ubuntu 17.10 running Linux 4.	kernel .13.0")
Compilers and versions (e.g., "Clang++	v6.0")
Applications and versions (e.g., "NAMD v2.13" or "SPEC CPU2	2017")
Libraries and versions (e.g., "OpenMPI v	3.1.0")
Key algorithms (e.g., "conjugate gra	dient")
put datasets and versions (e.g., "Berkeley Segmentation Dataset: Test #296059 [c	
Modifications made for the paper: describe how the hardware and se section was improved or otherwise altered.	oftware listed in the previous
Output from commands that gather execution environment informat	tion — see example scripts at
https://github.com/SC-Tech-Program/Author-Kit	

# **Artifact Evaluation (AE)**

Discuss the steps taken to help ensure the computational artifacts and results are trustworthy.

analyses robust to variability and unknowns in the system. E.g., validation of	accuracy and precision of timings,					
use of manufactured solutions or spectral properties, accounting for aleatoric	c and epistemic uncertainties,					
sensitivity of results to initial conditions, sensitivity to parameters and computational environment. Did you						
perform verification and validation studies? MathJax is enabled so you can enter LaTeX mathematical notation						
within \(\) or \[\].						
Are you completing an Artifact Evaluation (AE) Appendix?	Yes					
	No					

Describe controls your team put in place, statistics gathered, or other measures to make the measurements and

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