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	-	Implemented	F
hots c results comparisons g-point tolerance		<ul> <li>Generic snapshots and floating-point safe comparisons using Protobuf</li> </ul>	<ul> <li>Floating-point</li> <li>Better support floating-point</li> </ul>
nverters from compute olden serialization types or custom converters to help generate compute device data		<ul> <li>Converters between Protobuf and CUDA/OpenCL data types</li> </ul>	<ul> <li>Clean-up API for porting and converse.</li> <li>Protobuf converse.</li> <li>computing frame</li> </ul>
guage for Midas Touch le interface for Midas		<ul> <li>Code generation for CUDA and OpenCL Midas Touch code</li> </ul>	<ul> <li>Interface for conservation type</li> <li>Clean-up the Formation</li> </ul>
arsing C/C++ kernel code /etc.) el file of all inputs		• Design	<ul> <li>Clang tool for Flamel files from</li> </ul>

References	
1] Approval Tests.	h



- for ease of platform ode generation verters for other parallel meworks (SYCL, etc.)
- difference statistics for custom safety measures
- uture Work
- ittps://github.com/approvals/ApprovalTests.cpp.
- [2] T. Preston-Werner et al. TOML: Tom's Obvious Minimal Language. https://github.com/toml-lang/toml.
- [3] N. Ganesan, M. Taufer, B. Bauer, and S. Patel. FenZi: GPU-Enabled Molecular Dynamics Simulations ... In IEEE Int'l Parallel and Distributed Processing Symp. Workshops and PhD Forum, 2011. [4] G. Martinez, M. Gardner, and W. Feng. CU2CL: A CUDA-to-OpenCL Translator for Multi- and Many-Core Architectures. In IEEE Int'l Conf. on Parallel & Distributed Systems, 2011. [5] P. Sathre, M. Gardner, and W. Feng. On the Portability of CPU-Accelerated Applications via Automated Source-to-Source Translation. In Proc. Int'l Conf. on High Performance Computing in Asia-Pacific Region, 2019.

SolveVelocityConstraints

SolveBondConstraints

PMEForce medium

ChargeSpread\_small

nonbondforce

**UpdateCoords** 

CellClean

BCMultiply

Non-deterministic

CellBuild

