



ATLAS PUB Note
ATL-SOFT-PUB-2021-003
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ATLAS Computing Acknowledgements

The ATLAS Collaboration

Document listing the centres providing major contributions to ATLAS computing in terms of CPU resources in 2020 and 2021. To be referenced in the acknowledgement section of ATLAS papers.

The ATLAS experiment benefits from heterogeneous and diverse computing resources worldwide. The largest part of the processing and storage capacity is delivered in the form of pledged and beyond pledge resources under the Worldwide LHC Computing Grid (WLCG) project. Extra capacity is provided opportunistically by non-WLCG resource providers.

We acknowledge below the major contributors of ATLAS computing resources: the host laboratory CERN, the ATLAS Tier-1 and Tier-2 centres and the facilities contributing more than 5 million wall-clock processing hours in the period from 1 January 2020 to 30 June 2021¹, normalised at 10 HS06 per core slot and showing a CPU to wall-clock time ratio of at least 40%. Numbers are extracted from the ATLAS accounting dashboard. We also acknowledge the contribution of volunteer computing, in the form of the ATLAS@HOME project.

CoEPP, Melbourne (Australia)

Leopold-Franzens-Universität, Innsbruck (Austria)

Simon Fraser University (Canada)

TRIUMF (Canada)

University of Toronto (Canada)

University of Victoria (Canada)

University of Waterloo (Canada)

Universidad Técnica Federico Santa Maria (Chile)

Institute of High Energy Physics, Chinese Academy of Sciences (China)

Institute of Physics of the Czech Academy of Sciences (Czech Republic)

IT4Innovations National Supercomputing Center (Czech Republic)

Nordic e-Infrastructure Collaboration (Denmark, Finland, Norway, Sweden)

Centre de Calcul de l'Institut National de Physique Nucléaire et de Physique des Particules, Lyon (France)

Centre de Physique des Particules de Marseille (France)

Grille de production pour la Recherche en Île de France (GRIF) (France)

Mésocentre MUST de l'Univ. Savoie Mont Blanc CNRS/IN2P3, Laboratoire d'Annecy de Physique des Particules (France)

Laboratoire de Physique Corpusculaire de Clermont-Ferrand (France)

Laboratoire de Physique Subatomique et de Cosmologie, Grenoble (France)

Bergische Universität Wuppertal (Germany)

DESY, Hamburg (Germany)

DESY, Zeuthen (Germany)

Excellence Cluster ORIGINS, Munich (Germany)

Georg-August-Universität, Göttingen (Germany)

Karlsruher Institut für Technologie (KIT) (Germany)

Leibniz Supercomputing Centre, Munich (Germany)

Ludwig-Maximilians-Universität, Munich (Germany)

Max Planck Computing & Data Facility, Munich (Germany)

Max Planck Institute for Physics, Munich (Germany)

Albert-Ludwigs-Universität Freiburg (Germany)

¹ Contributions prior to this can be found in [ATL-GEN-PUB-2016-002](#) (2015-2016) and [ATL-SOFT-PUB-2020-001](#) (2018-2019).

Hong Kong Tier2, Hong Kong (Hong Kong SAR)

Technion - Israel Institute of Technology (Israel)

Tel Aviv University (Israel)

Weizmann Institute of Science (Israel)

INFN Cosenza and Università della Calabria, Dipartimento di Fisica, Cosenza (Italy)

INFN Laboratori Nazionali di Frascati, Frascati (Italy)

INFN Milano and Università di Milano, Dipartimento di Fisica, Milano (Italy)

INFN Napoli and Università di Napoli, Dipartimento di Fisica, Napoli (Italy)

INFN Roma and Sapienza Università di Roma, Dipartimento di Fisica, Roma (Italy)

INFN Roma Tre and Università Roma Tre, Dipartimento di Matematica e Fisica, Roma (Italy)

Istituto Nazionale di Fisica Nucleare (INFN) - CNAF, Bologna (Italy)

International Center for Elementary Particle Physics, The University of Tokyo (Japan)

National Institute for Subatomic Physics, Amsterdam (Netherlands)

SURFsara, Amsterdam (Netherlands)

Academic Computer Centre CYFRONET of the University of Science and Technology (Poland)

Poznan Supercomputing and Networking Center (Poland)

Laboratório de Instrumentação e Física Experimental de Partículas (LIP) (Portugal)

Alexandru Ioan Cuza University of Iasi (Romania)

Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (Romania)

National Institute for Research and Development of Isotopic and Molecular Technologies Romania
NIRDIMT (Romania)

Institute for High Energy Physics, Protvino (Russian Federation)

Institute for Theoretical and Experimental Physics, Moscow (Russian Federation)

Joint Institute for Nuclear Research, Dubna (Russian Federation)

Lebedev Physical Institute, Moscow (Russian Federation)

Petersburg Nuclear Physics Institute, Gatchina (Russian Federation)

Russian Research Center - Kurchatov Institute, Moscow (Russian Federation)

Skobeltsyn Institute of Nuclear Physics, Moscow (Russian Federation)

Department of Nuclear Physics and Biophysics, Comenius University, Bratislava (Slovakia)

Institute of Experimental Physics of the Slovak Academy of Sciences, Kosice (Slovakia)

Arnes (Slovenia)

Institute of Information Science (Slovenia)

Maister - HPC RIVR @ UM, University of Maribor (Slovenia)

SiGNET T2, Jozef Stefan Institute (Slovenia)

Barcelona Supercomputing Center (Spain)

Instituto de Física Corpuscular (IFIC), Valencia (Spain)

Institut de Física d'Altes Energies (IFAE), Barcelona (Spain)

Port d'Informació Científica (PIC), Barcelona (Spain)

Universidad Autónoma de Madrid (Spain)

Swedish National Infrastructure for Computing (Sweden)

European Organization for Nuclear Research (CERN) (Switzerland)
Laboratory for High Energy Physics - Universität Bern (Switzerland)
Swiss National Supercomputing Centre, Lugano (Switzerland)

Academia Sinica (Taiwan)

Turkish Academic Network and Information Center (TUBITAK ULAKBIM) (Turkey)

Rutherford Appleton Laboratory (UK)
London Tier2, Brunel University London (UK)
London Tier2, Imperial College London (UK)
London Tier2, Queen Mary University of London (UK)
London Tier2, Royal Holloway, University of London (UK)
London Tier2, University College London (UK)
Northgrid Tier2, Lancaster University (UK)
Northgrid Tier2, University of Liverpool (UK)
Northgrid Tier2, University of Manchester (UK)
Northgrid Tier2, University of Sheffield (UK)
Scotgrid Tier2, Durham University (UK)
Scotgrid Tier2, Edinburgh Compute and Data Facility (UK)
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Brookhaven National Laboratory (USA)
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US-Western T2, Stanford Linear Accelerator Centre (USA)