HTCondor Workshop at EC-JRC 24 – 27 September 2019

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HTCondor Workshops

- Held in Europe

- Complementary to yearly (~ May) HTCondor weeks in Madison (WI)

- Number of precursors (Bologna 199x, Milano 2006, ...)

- This series: CERN Dec-2014, ALBA Feb-2016, DESY Jun-2017, RAL Sep-2018 – now JRC

- Started Tue 24-Sep in the morning, finished Fri 27-Sep at lunchtime (½ day more than previously)

- This time: comprehensive coverage of HTCondor-CE as well

Workshop September 2019

- Hosted by the European Commission's Joint Research Centre in Ispra, Lombardy, Italy (very close to the shores of Lago Maggiore)
  - Previously a EURATOM research site, now a pluridisciplinal centre for research supporting the EC's policy decisions
    - Impressive examples by JRC presentations and site visits
  - One (the largest, more than 2'000 employees) of six JRC sites totalling about 3'000 employees
- Number of interesting HTCondor use cases
- Excellent local organisation by Antonio Puertas Gallardo, Dario Rodriguez and numerous helpers

Attendees (1)

- 61 registered participants
  - 55 from Europe, 4 from HTCondor team at U Wisconsin-Madison, 1 other North American, 1 from South Africa - European attendees include 17 from JRC
  - Healthy mixture of experienced and first-time attendants!
  - Dominated by academia and research – could do with more company participation
  - But good to see attendance by others than HEP and physics increase
- 27 different affiliations
  - 24 from Europe
    - 5 Italy, 3 Belgium, 1 France, 3 Germany, 2 Czech Republic, 1 The Netherlands, 1 Russia, 2 Spain, 2 Switzerland, 4 United Kingdom
  - 2 from North America
  - 1 from South Africa

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Attendees (2)

Presentations

- 38 contributions, 22 different speakers

- Total duration: 19h 05'; HTCondor team: 11h 20'

- Rich, very interesting, dense programme
  - Comprehensive coverage of HTCondor and HTCondor-CE by developers, many helpful tips
  - User reports on HTCondor and HTCondor-CE usage in the field, lots of user suggestions much appreciated by HTCondor team

- Agenda, material: `https://indico.cern.ch/e/htcondor2019`

HTCondor Team Presentations

- Philosophy and Architecture of HTCondor
- ClassAd Advanced Tutorial
- Negotiator Policy and Configuration
- Advanced Job Submission and Transforms
- Python Bindings Tutorial
- What's new in HTCondor? What's coming up?
- HTMap and HTC Notebooks: Bringing HTC to Python
- Moving Job Data
- Federating HTCondor Pools
- SciTokens and Credential Management

- Security Mechanisms in HTCondor
- Interface to HTCondor via REST
- Containers with HTCondor: Docker, Singularity
- Reflections on HTC Needs and Directions
- HTCondor-CE Overview: From Clusters to Grids
- HTCondor-CE Basics and Architecture
- HTCondor-CE Configuration
- HTCondor-CE integration with APEL and BDII
- HTCondor-CE Trouble shooting and Questions/ Answers
- HTCondor-CE: What Next?

User Presentations

Healthy mixture of 'site report' style talks and in-depth, drill-down of specific items:

- U Bonn
- DESY Hamburg
- CERN

- JRC
- INFN Milano
- CMS Global Operations
- CC-IN2P3 Lyon
- INFN Torino (VIRGO)
- U Freiburg

Office Hours

- Occasion for one-on-one discussions between HTCondor team members and participants on specific issues

- Additional half-day permitted dedicated time slots – much appreciated by everybody

Visits, Social Events

- Dedicated time slots for site visits on Wednesday, Thursday and Friday
  - ESSOR Nuclear Reactor
  - Smart Grid Interoperability Laboratory
  - ELSA: European Laboratory for Structural Assessment
  - Delta of attendees' knowledge about host institute probably much larger than ever – also thanks to presentations about JRC's use of HTCondor
- Welcome reception with snacks, prosecco and beer
- Social dinner

Feedback and Next Workshop

- Very positive reactions by attendees including the HTCondor team ("better and more intense discussions than at HTCondor week")

- Next workshop: Probably 2nd half of September for 3 ½ days again, venue to be decided
    - Two firm offers received
    - Interest to host (next or any future) workshop? Talk to me...

Conclusions

- Workshop (series) much appreciated by community and developers alike

- No question about continuing the series

- Feedback, proposals, criticism? Get in touch!

- Interested? Join us next year!