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CRADA Final Report: RouteViews project

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Publication Date

2023-12-14

Peer reviewed

Cooperative Research and Development Agreement (CRADA) Final Report

Report Date:

12/1/22

In accordance with Requirements set forth in the terms of the CRADA, this document is the CRADA Final Report, including a list of Subject Inventions. It is to be forwarded to the DOE Office of Scientific and Technical Information upon completion or termination of the CRADA, as part of the commitment to the public to demonstrate results of federally funded research.

Parties to the Agreement: University of Oregon and Berkeley Lab

CRADA number: FP00009959

CRADA Title: Route Views Project

Responsible Technical Contact at Berkeley Lab: Kathryn Mace

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Sponsoring DOE Program Office(s):

ASCR

LBNL Report Number:

#TB

OSTI Number:

[SPO to complete]

Joint Work Statement Funding Table showing DOE funding commitment:

DOE Funding to LBNL	\$129,692
Participant Funding to LBNL	0
Participant In-Kind Contribution Value	\$5,481
Total of all Contributions	\$135,173

Provide a list of publications, conference papers, or other public releases of results, developed under this CRADA:

(Publications must include journal name, volume, issue, Digital Object Identifier)

N/A: none required or produced per the original CRADA agreement.

Provide a detailed list of all subject inventions, to include patent applications, copyrights, and trademarks:

(Patents and patent applications are to include the title and inventor(s) names. When copyright is asserted, the Government license should be included on the cover page of the Final Report)

N/A

Executive Summary of CRADA Work:

The Route Views Project ("Project") was founded by the Advanced Network Technology Center at the University of Oregon to allow internet users to view global Border Gateway Protocol routing information from the perspective of the other locations around the Internet. ESnet finds great value in the Route Views Project and tools while operating the ESnet network, and therefore wishes to support the Project.

ESnet desired to offer ESnet engineering support, or technical assistance, up to 0.1 FTE of Eric Smith's time for assisting RouteViews research infrastructure services.

In exchange for Eric's time on the Project, it was understood that the University of Oregon would provide office space in close proximity to the Route Views Project team members at the University of Oregon. It was understood that the Route Views Project team consists of multiple engineers that are responsible for the operational support of the Project. The information below outlines the upcoming goals and responsibilities of the entire team, of which Eric Smith will contribute 10% of his time to help accomplish.

The RouteViews project allows internet users to view global BGP protocol routing

information and is a significant tool used in global research and education networks. It is an open source tool, maintained by the core RouteViews team and serves as an aid for ESnet and other scientific and education network peers to operate these networks in an effective and efficient manner.

Summary of Research Results:

The work described above was performed by Eric Smith, providing 0.1 FTE, or 10% of his time, for general work with and support of the RouterViews team. General information on the open source tool and project can be found at: <https://www.routeviews.org/routeviews/>

It is noted that approximately six months after the University of Oregon made the office space available for Eric Smith, the global COVID-19 occurred. Due to COVID-19 restrictions on the University campus, Eric Smith was not allowed in the building without a chaperone and was unable to consistently get a chaperone. Therefore, he completed the work from home for virtually the entire contract period (he spent one week or less in the provided office) and did not utilize any office space at the University of Oregon.

RouteViews is an open source tool for general use and therefore there are no relevant patents, products, applications, publications, or technology transfer activities developed under the CRADA to be reported.

