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Name: National Science FoundationInternal Address: Office of the General CounselSuite 1265Street Address: 4201 Wilson BoulevardCity: Arlington State: VA Zip: 22230Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/520,474

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robin Clay FritschInternal Address: Office of the General CounselSuite 1265Street Address: 4201 Wilson BoulevardCity: Arlington State: VA Zip: 222306. Total number of applications and patents involved: ☐7. Total fee (37 CFR 3.41).....\$ 0.00

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This instrument confirms to the United States Government, as represented by the National Science Foundation an irrevocable, nonexclusive, nontransferable, royalty-free license to practice or have practiced on its behalf throughout the world the following subject invention:

Invention title: "Apparatus and Method for Instruction Execution Hot Spot Detection in a Data Processing Unit"

Inventor(s): Matthew C. Merten, Andrew R. Trick, Christopher N. George,
John C. Gyllenhaal, Wen-mei W. Hwu

Patent application(s) number and filing date: Serial # 09/520,474, Filed March 8, 2000
Title "Method and Apparatus for Instruction Execution Hot Spot Detection and Monitoring in a Data Processing Unit"

Patent number and date of patent:

Country, if other than United States:

This subject invention was made with National Science Foundation support through:

Grant or contract number: NSF CCR-9809404

Principal rights to this subject invention have been waived to the licensor, The Board of Trustees of the University of Illinois.

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Signed: Craig S. Bazzani
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Date: 4/6/00

Attest: Michele M. Thompson 4/7/01
Michele M. Thompson, Secretary