

113TH CONGRESS  
1ST SESSION

# H. R. 967

To amend the High-Performance Computing Act of 1991 to authorize activities for support of networking and information technology research, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 5, 2013

Mrs. LUMMIS (for herself, Mr. SMITH of Texas, and Ms. EDDIE BERNICE JOHNSON of Texas) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

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## A BILL

To amend the High-Performance Computing Act of 1991 to authorize activities for support of networking and information technology research, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Advancing America’s  
5 Networking and Information Technology Research and  
6 Development Act of 2013”.

7 **SEC. 2. PROGRAM PLANNING AND COORDINATION.**

8 (a) PERIODIC REVIEWS.—Section 101 of the High-  
9 Performance Computing Act of 1991 (15 U.S.C. 5511)

1 is amended by adding at the end the following new sub-  
2 section:

3 “(d) PERIODIC REVIEWS.—The agencies identified in  
4 subsection (a)(3)(B) shall—

5 “(1) periodically assess the contents and fund-  
6 ing levels of the Program Component Areas and re-  
7 structure the Program when warranted, taking into  
8 consideration any relevant recommendations of the  
9 advisory committee established under subsection (b);  
10 and

11 “(2) ensure that the Program includes large-  
12 scale, long-term, interdisciplinary research and de-  
13 velopment activities, including activities described in  
14 section 104.”.

15 (b) DEVELOPMENT OF STRATEGIC PLAN.—Section  
16 101 of such Act (15 U.S.C. 5511) is amended further by  
17 adding after subsection (d), as added by subsection (a)  
18 of this Act, the following new subsection:

19 “(e) STRATEGIC PLAN.—

20 “(1) IN GENERAL.—The agencies identified in  
21 subsection (a)(3)(B), working through the National  
22 Science and Technology Council and with the assist-  
23 ance of the National Coordination Office described  
24 under section 102, shall develop, within 12 months  
25 after the date of enactment of the Advancing Amer-

1        ica’s Networking and Information Technology Re-  
2        search and Development Act of 2013, and update  
3        every 3 years thereafter, a 5-year strategic plan to  
4        guide the activities described under subsection  
5        (a)(1).

6            “(2) CONTENTS.—The strategic plan shall  
7        specify near-term and long-term objectives for the  
8        Program, the anticipated time frame for achieving  
9        the near-term objectives, the metrics to be used for  
10       assessing progress toward the objectives, and how  
11       the Program will—

12            “(A) foster the transfer of research and  
13        development results into new technologies and  
14        applications for the benefit of society, including  
15        through cooperation and collaborations with  
16        networking and information technology re-  
17        search, development, and technology transition  
18        initiatives supported by the States;

19            “(B) encourage and support mechanisms  
20        for interdisciplinary research and development  
21        in networking and information technology, in-  
22        cluding through collaborations across agencies,  
23        across Program Component Areas, with indus-  
24        try, with Federal laboratories (as defined in  
25        section 4 of the Stevenson-Wydler Technology

1 Innovation Act of 1980 (15 U.S.C. 3703)), and  
2 with international organizations;

3 “(C) address long-term challenges of na-  
4 tional importance for which solutions require  
5 large-scale, long-term, interdisciplinary research  
6 and development;

7 “(D) place emphasis on innovative and  
8 high-risk projects having the potential for sub-  
9 stantial societal returns on the research invest-  
10 ment;

11 “(E) strengthen all levels of networking  
12 and information technology education and  
13 training programs to ensure an adequate, well-  
14 trained workforce; and

15 “(F) attract more women and underrep-  
16 resented minorities to pursue postsecondary de-  
17 grees in networking and information tech-  
18 nology.

19 “(3) NATIONAL RESEARCH INFRASTRUC-  
20 TURE.—The strategic plan developed in accordance  
21 with paragraph (1) shall be accompanied by mile-  
22 stones and roadmaps for establishing and maintain-  
23 ing the national research infrastructure required to  
24 support the Program, including the roadmap re-  
25 quired by subsection (a)(2)(E).

1           “(4) RECOMMENDATIONS.—The entities in-  
2           volved in developing the strategic plan under para-  
3           graph (1) shall take into consideration the rec-  
4           ommendations—

5                   “(A) of the advisory committee established  
6                   under subsection (b); and

7                   “(B) of the stakeholders whose input was  
8                   solicited by the National Coordination Office, as  
9                   required under section 102(b)(3).

10           “(5) REPORT TO CONGRESS.—The Director of  
11           the National Coordination Office shall transmit the  
12           strategic plan required under paragraph (1) to the  
13           advisory committee, the Committee on Commerce,  
14           Science, and Transportation of the Senate, and the  
15           Committee on Science, Space, and Technology of the  
16           House of Representatives.”.

17           (c) ADDITIONAL RESPONSIBILITIES OF DIRECTOR.—  
18           Section 101(a)(2) of such Act (15 U.S.C. 5511(a)(2)) is  
19           amended—

20                   (1) in subparagraph (A) by inserting “edu-  
21                   cation,” before “and other activities”;

22                   (2) by redesignating subparagraphs (E) and  
23                   (F) as subparagraphs (F) and (G), respectively; and

24                   (3) by inserting after subparagraph (D) the fol-  
25                   lowing new subparagraph:

1           “(E) encourage and monitor the efforts of the  
2 agencies participating in the Program to allocate the  
3 level of resources and management attention nec-  
4 essary to ensure that the strategic plan under sub-  
5 section (e) is developed and executed effectively and  
6 that the objectives of the Program are met;”.

7           (d) ADVISORY COMMITTEE.—Section 101(b)(1) of  
8 such Act (15 U.S.C. 5511(b)(1)) is amended—

9           (1) after the first sentence, by inserting the fol-  
10 lowing: “The co-chairs of the advisory committee  
11 shall meet the qualifications of committee member-  
12 ship and may be members of the President’s Council  
13 of Advisors on Science and Technology.”; and

14           (2) in subparagraph (D), by striking “high-per-  
15 formance” and inserting “high-end”.

16           (e) REPORT.—Section 101(a)(3) of such Act (15  
17 U.S.C. 5511(a)(3)) is amended—

18           (1) in subparagraph (C)—

19           (A) by striking “is submitted,” and insert-  
20 ing “is submitted, the levels for the previous  
21 fiscal year,”; and

22           (B) by striking “each Program Component  
23 Area;” and inserting “each Program Compo-  
24 nent Area and research area supported in ac-  
25 cordance with section 104;”;

1 (2) in subparagraph (D)—

2 (A) by striking “each Program Component  
3 Area,” and inserting “each Program Component  
4 Area and research area supported in accordance with section 104,”;

5  
6 (B) by striking “is submitted,” and inserting  
7 “is submitted, the levels for the previous  
8 fiscal year,”; and

9 (C) by striking “and” after the semicolon;

10 (3) by redesignating subparagraph (E) as sub-  
11 paragraph (G); and

12 (4) by inserting after subparagraph (D) the following new subparagraphs:

13 “(E) include a description of how the objectives  
14 for each Program Component Area, and the objectives  
15 for activities that involve multiple Program  
16 Component Areas, relate to the objectives of the  
17 Program identified in the strategic plan required  
18 under subsection (e);

19  
20 “(F) include—

21 “(i) a description of the funding required  
22 by the National Coordination Office to perform  
23 the functions specified under section 102(b) for  
24 the next fiscal year by category of activity;

1           “(ii) a description of the funding required  
2           by such Office to perform the functions speci-  
3           fied under section 102(b) for the current fiscal  
4           year by category of activity; and

5           “(iii) the amount of funding provided for  
6           such Office for the current fiscal year by each  
7           agency participating in the Program; and”.

8           (f) DEFINITION.—Section 4 of such Act (15 U.S.C.  
9 5503) is amended—

10           (1) by redesignating paragraphs (1) through  
11           (7) as paragraphs (2) through (8), respectively;

12           (2) by inserting before paragraph (2), as so re-  
13           designated, the following new paragraph:

14           “(1) ‘cyber-physical systems’ means physical or  
15           engineered systems whose networking and informa-  
16           tion technology functions and physical elements are  
17           deeply integrated and are actively connected to the  
18           physical world through sensors, actuators, or other  
19           means to perform monitoring and control func-  
20           tions;”;

21           (3) in paragraph (3), as so redesignated, by  
22           striking “high-performance computing” and insert-  
23           ing “networking and information technology”;

24           (4) in paragraph (4), as so redesignated—



1 (A) by striking “high-performance com-  
2 puting” and inserting “networking and infor-  
3 mation technology”; and

4 (B) by striking “supercomputer” and in-  
5 serting “high-end computing”;

6 (5) in paragraph (6), as so redesignated, by  
7 striking “network referred to as” and all that fol-  
8 lows through the semicolon and inserting “network,  
9 including advanced computer networks of Federal  
10 agencies and departments;”; and

11 (6) in paragraph (7), as so redesignated, by  
12 striking “National High-Performance Computing  
13 Program” and inserting “networking and informa-  
14 tion technology research and development program”.

15 **SEC. 3. LARGE-SCALE RESEARCH IN AREAS OF NATIONAL**  
16 **IMPORTANCE.**

17 Title I of such Act (15 U.S.C. 5511) is amended by  
18 adding at the end the following new section:

19 **“SEC. 104. LARGE-SCALE RESEARCH IN AREAS OF NA-**  
20 **TIONAL IMPORTANCE.**

21 “(a) IN GENERAL.—The Program shall encourage  
22 agencies identified in section 101(a)(3)(B) to support  
23 large-scale, long-term, interdisciplinary research and de-  
24 velopment activities in networking and information tech-  
25 nology directed toward application areas that have the po-

1 tential for significant contributions to national economic  
2 competitiveness and for other significant societal benefits.  
3 Such activities, ranging from basic research to the dem-  
4 onstration of technical solutions, shall be designed to ad-  
5 vance the development of research discoveries. The advi-  
6 sory committee established under section 101(b) shall  
7 make recommendations to the Program for candidate re-  
8 search and development areas for support under this sec-  
9 tion.

10 “(b) CHARACTERISTICS.—

11 “(1) IN GENERAL.—Research and development  
12 activities under this section shall—

13 “(A) include projects selected on the basis  
14 of applications for support through a competi-  
15 tive, merit-based process;

16 “(B) involve collaborations among re-  
17 searchers in institutions of higher education  
18 and industry, and may involve nonprofit re-  
19 search institutions and Federal laboratories, as  
20 appropriate;

21 “(C) when possible, leverage Federal in-  
22 vestments through collaboration with related  
23 State initiatives; and

24 “(D) include a plan for fostering the trans-  
25 fer of research discoveries and the results of

1           technology demonstration activities, including  
2           from institutions of higher education and Fed-  
3           eral laboratories, to industry for commercial de-  
4           velopment.

5           “(2) COST-SHARING.—In selecting applications  
6           for support, the agencies shall give special consider-  
7           ation to projects that include cost sharing from non-  
8           Federal sources.

9           “(3) AGENCY COLLABORATION.—If 2 or more  
10          agencies identified in section 101(a)(3)(B), or other  
11          appropriate agencies, are working on large-scale re-  
12          search and development activities in the same area  
13          of national importance, then such agencies shall  
14          strive to collaborate through joint solicitation and se-  
15          lection of applications for support and subsequent  
16          funding of projects.

17          “(4) INTERDISCIPLINARY RESEARCH CEN-  
18          TERS.—Research and development activities under  
19          this section may be supported through interdiscipli-  
20          nary research centers that are organized to inves-  
21          tigate basic research questions and carry out tech-  
22          nology demonstration activities in areas described in  
23          subsection (a). Research may be carried out through  
24          existing interdisciplinary centers, including those au-  
25          thorized under section 7024(b)(2) of the America

1       COMPETES Act (Public Law 110–69; 42 U.S.C.  
2       1862o–10).”.

3       **SEC. 4. CYBER-PHYSICAL SYSTEMS.**

4       (a) **ADDITIONAL PROGRAM CHARACTERISTICS.**—Sec-  
5       tion 101(a)(1) of such Act (15 U.S.C. 5511(a)(1)) is  
6       amended—

7               (1) in subparagraph (H), by striking “and”  
8       after the semicolon;

9               (2) in subparagraph (I), by striking the period  
10       at the end and inserting a semicolon; and

11              (3) by adding at the end the following new sub-  
12       paragraphs:

13              “(J) provide for increased understanding of the  
14       scientific principles of cyber-physical systems and  
15       improve the methods available for the design, devel-  
16       opment, and operation of cyber-physical systems  
17       that are characterized by high reliability, safety, and  
18       security; and

19              “(K) provide for research and development on  
20       human-computer interactions, visualization, and big  
21       data.”.

22       (b) **TASK FORCE.**—Title I of such Act (15 U.S.C.  
23       5511) is amended further by adding after section 104, as  
24       added by section 3 of this Act, the following new section:

1 **“SEC. 105. UNIVERSITY/INDUSTRY TASK FORCE.**

2       “(a) ESTABLISHMENT.—Not later than 180 days  
3 after the date of enactment of the Advancing America’s  
4 Networking and Information Technology Research and  
5 Development Act of 2013, the Director of the National  
6 Coordination Office shall convene a task force to explore  
7 mechanisms for carrying out collaborative research and  
8 development activities for cyber-physical systems, includ-  
9 ing the related technologies required to enable these sys-  
10 tems, through a consortium or other appropriate entity  
11 with participants from institutions of higher education,  
12 Federal laboratories, and industry.

13       “(b) FUNCTIONS.—The task force shall—

14               “(1) develop options for a collaborative model  
15 and an organizational structure for such entity  
16 under which the joint research and development ac-  
17 tivities could be planned, managed, and conducted  
18 effectively, including mechanisms for the allocation  
19 of resources among the participants in such entity  
20 for support of such activities;

21               “(2) propose a process for developing a re-  
22 search and development agenda for such entity, in-  
23 cluding guidelines to ensure an appropriate scope of  
24 work focused on nationally significant challenges and  
25 requiring collaboration and to ensure the develop-

1 ment of related scientific and technological mile-  
2 stones;

3 “(3) define the roles and responsibilities for the  
4 participants from institutions of higher education,  
5 Federal laboratories, and industry in such entity;

6 “(4) propose guidelines for assigning intellec-  
7 tual property rights and for the transfer of research  
8 results to the private sector; and

9 “(5) make recommendations for how such enti-  
10 ty could be funded from Federal, State, and non-  
11 governmental sources.

12 “(c) COMPOSITION.—In establishing the task force  
13 under subsection (a), the Director of the National Coordi-  
14 nation Office—

15 “(1) shall appoint an equal number of individ-  
16 uals with knowledge and expertise in cyber-physical  
17 systems from—

18 “(A) institutions of higher education, in-  
19 cluding minority-serving institutions and com-  
20 munity colleges; and

21 “(B) industry; and

22 “(2) may appoint not more than 2 individuals  
23 from Federal laboratories.

24 “(d) REPORT.—Not later than 1 year after the date  
25 of enactment of the Advancing America’s Networking and

1 Information Technology Research and Development Act of  
2 2013, the Director of the National Coordination Office  
3 shall transmit to the Committee on Commerce, Science,  
4 and Transportation of the Senate and the Committee on  
5 Science, Space, and Technology of the House of Rep-  
6 resentatives a report describing the findings and rec-  
7 ommendations of the task force.

8 “(e) TERMINATION.—The task force shall terminate  
9 upon transmittal of the report required under subsection  
10 (d).

11 “(f) COMPENSATION.—Members of the task force  
12 shall serve without compensation.”.

13 **SEC. 5. CLOUD COMPUTING SERVICES FOR RESEARCH.**

14 Title I of such Act (15 U.S.C. 5511) is amended fur-  
15 ther by adding after section 105, as added by section 4(b)  
16 of this Act, the following new section:

17 **“SEC. 106. CLOUD COMPUTING SERVICES FOR RESEARCH.**

18 “(a) INTERAGENCY WORKING GROUP.—Not later  
19 than 180 days after the date of enactment of the Advanc-  
20 ing America’s Networking and Information Technology  
21 Research and Development Act of 2013, the Director of  
22 the National Coordination Office, working through the  
23 National Science and Technology Council, shall convene  
24 an interagency working group to examine—

25 “(1) the research and development needed—

1           “(A) to enhance the effectiveness and effi-  
2           ciency of cloud computing environments;

3           “(B) to increase the trustworthiness of  
4           cloud applications and infrastructure; and

5           “(C) to enhance the foundations of cloud  
6           architectures, programming models, and inter-  
7           operability; and

8           “(2) the potential use of cloud computing for  
9           federally funded science and engineering research,  
10          including issues around funding mechanisms and  
11          policies for the use of cloud computing services for  
12          such research.

13          “(b) CONSULTATION.—In carrying out the tasks in  
14          paragraphs (1) and (2) of subsection (a), the working  
15          group shall consult with academia, industry, Federal lab-  
16          oratories, and other relevant organizations and institu-  
17          tions, as appropriate.

18          “(c) REPORT.—Not later than 1 year after the date  
19          of enactment of the Advancing America’s Networking and  
20          Information Technology Research and Development Act of  
21          2013, the Director of the National Coordination Office  
22          shall transmit to the Committee on Science, Space, and  
23          Technology of the House of Representatives and the Com-  
24          mittee on Commerce, Science, and Transportation of the



1 Senate a report describing the findings and any rec-  
2 ommendations of the working group.

3 “(d) **TERMINATION.**—The interagency working group  
4 shall terminate upon transmittal of the report required  
5 under subsection (c).”.

6 **SEC. 6. NATIONAL COORDINATION OFFICE.**

7 Section 102 of such Act (15 U.S.C. 5512) is amended  
8 to read as follows:

9 **“SEC. 102. NATIONAL COORDINATION OFFICE.**

10 “(a) **OFFICE.**—The Director shall continue a Na-  
11 tional Coordination Office with a Director and full-time  
12 staff.

13 “(b) **FUNCTIONS.**—The National Coordination Office  
14 shall—

15 “(1) provide technical and administrative sup-  
16 port to—

17 “(A) the agencies participating in planning  
18 and implementing the Program, including such  
19 support as needed in the development of the  
20 strategic plan under section 101(e); and

21 “(B) the advisory committee established  
22 under section 101(b);

23 “(2) serve as the primary point of contact on  
24 Federal networking and information technology ac-  
25 tivities for government organizations, academia, in-

1 industry, professional societies, State computing and  
2 networking technology programs, interested citizen  
3 groups, and others to exchange technical and pro-  
4 grammatic information;

5 “(3) solicit input and recommendations from a  
6 wide range of stakeholders during the development  
7 of each strategic plan required under section 101(e)  
8 through the convening of at least 1 workshop with  
9 invitees from academia, industry, Federal labora-  
10 tories, and other relevant organizations and institu-  
11 tions;

12 “(4) conduct public outreach, including the dis-  
13 semination of findings and recommendations of the  
14 advisory committee, as appropriate; and

15 “(5) promote access to and early application of  
16 the technologies, innovations, and expertise derived  
17 from Program activities to agency missions and sys-  
18 tems across the Federal Government and to United  
19 States industry.

20 “(c) SOURCE OF FUNDING.—

21 “(1) IN GENERAL.—The operation of the Na-  
22 tional Coordination Office shall be supported by  
23 funds from each agency participating in the Pro-  
24 gram.

1           “(2) SPECIFICATIONS.—The portion of the total  
2 budget of such Office that is provided by each agen-  
3 cy for each fiscal year shall be in the same propor-  
4 tion as each such agency’s share of the total budget  
5 for the Program for the previous fiscal year, as spec-  
6 ified in the report required under section  
7 101(a)(3).”.

8 **SEC. 7. IMPROVING NETWORKING AND INFORMATION**  
9 **TECHNOLOGY EDUCATION.**

10 Section 201(a) of such Act (15 U.S.C. 5521(a)) is  
11 amended—

12           (1) by redesignating paragraphs (2) through  
13 (4) as paragraphs (3) through (5), respectively; and

14           (2) by inserting after paragraph (1) the fol-  
15 lowing new paragraph:

16           “(2) the National Science Foundation shall use  
17 its existing programs, in collaboration with other  
18 agencies, as appropriate, to improve the teaching  
19 and learning of networking and information tech-  
20 nology at all levels of education and to increase par-  
21 ticipation in networking and information technology  
22 fields, including by women and underrepresented mi-  
23 norities;”.

1 **SEC. 8. CONFORMING AND TECHNICAL AMENDMENTS.**

2 (a) SECTION 3.—Section 3 of such Act (15 U.S.C.  
3 5502) is amended—

4 (1) in the matter preceding paragraph (1), by  
5 striking “high-performance computing” and insert-  
6 ing “networking and information technology”;

7 (2) in paragraph (1)—

8 (A) in the matter preceding subparagraph  
9 (A), by striking “high-performance computing”  
10 and inserting “networking and information  
11 technology”;

12 (B) in subparagraphs (A), (F), and (G), by  
13 striking “high-performance computing” each  
14 place it appears and inserting “networking and  
15 information technology”; and

16 (C) in subparagraph (H), by striking  
17 “high-performance” and inserting “high-end”;  
18 and

19 (3) in paragraph (2)—

20 (A) by striking “high-performance com-  
21 puting and” and inserting “networking and in-  
22 formation technology and”; and

23 (B) by striking “high-performance com-  
24 puting network” and inserting “networking and  
25 information technology”.

1 (b) TITLE I.—The heading of title I of such Act (15  
2 U.S.C. 5511) is amended by striking “**HIGH-PER-**  
3 **FORMANCE COMPUTING**” and inserting “**NET-**  
4 **WORKING AND INFORMATION TECH-**  
5 **NOLOGY**”.

6 (c) SECTION 101.—Section 101 of such Act (15  
7 U.S.C. 5511) is amended—

8 (1) in the section heading, by striking “**HIGH-**  
9 **PERFORMANCE COMPUTING**” and inserting  
10 “**NETWORKING AND INFORMATION TECH-**  
11 **NOLOGY RESEARCH AND DEVELOPMENT**”;

12 (2) in subsection (a)—

13 (A) in the subsection heading, by striking  
14 “**NATIONAL HIGH-PERFORMANCE COMPUTING**”  
15 and inserting “**NETWORKING AND INFORMA-**  
16 **TION TECHNOLOGY RESEARCH AND DEVELOP-**  
17 **MENT**”;

18 (B) in paragraph (1) of such subsection—

19 (i) in the matter preceding subpara-  
20 graph (A), by striking “**National High-Per-**  
21 **formance Computing Program**” and insert-  
22 ing “**networking and information tech-**  
23 **nology research and development pro-**  
24 **gram**”;

1 (ii) in subparagraph (A), by striking  
2 “high-performance computing, including  
3 networking” and inserting “networking  
4 and information technology”;

5 (iii) in subparagraphs (B) and (G), by  
6 striking “high-performance” each place it  
7 appears and inserting “high-end”; and

8 (iv) in subparagraph (C), by striking  
9 “high-performance computing and net-  
10 working” and inserting “high-end com-  
11 puting, distributed, and networking”; and  
12 (C) in paragraph (2) of such subsection—

13 (i) in subparagraphs (A) and (C)—

14 (I) by striking “high-performance  
15 computing” each place it appears and  
16 inserting “networking and information  
17 technology”; and

18 (II) by striking “development,  
19 networking,” each place it appears  
20 and inserting “development,”; and

21 (ii) in subparagraphs (F) and (G), as  
22 redesignated by section 2(c)(1) of this Act,  
23 by striking “high-performance” each place  
24 it appears and inserting “high-end”;

25 (3) in subsection (b)—

1 (A) in paragraph (1), in the matter pre-  
2 ceding subparagraph (A), by striking “high-per-  
3 formance computing” both places it appears  
4 and inserting “networking and information  
5 technology”; and

6 (B) in paragraph (2), in the second sen-  
7 tence, by striking “2” and inserting “3”; and

8 (4) in subsection (c)(1)(A), by striking “high-  
9 performance computing” and inserting “networking  
10 and information technology”.

11 (d) SECTION 201.—Section 201(a)(1) of such Act  
12 (15 U.S.C. 5521(a)(1)) is amended by striking “high-per-  
13 formance computing” and all that follows through “net-  
14 working;” and inserting “networking and information re-  
15 search and development;”.

16 (e) SECTION 202.—Section 202(a) of such Act (15  
17 U.S.C. 5522(a)) is amended by striking “high-perform-  
18 ance computing” and inserting “networking and informa-  
19 tion technology”.

20 (f) SECTION 203.—Section 203(a) of such Act (15  
21 U.S.C. 5523(a)(1)) is amended—

22 (1) in paragraph (1), by striking “high-per-  
23 formance computing and networking” and inserting  
24 “networking and information technology”; and

1           (2) in paragraph (2)(A), by striking “high-per-  
2           formance” and inserting “high-end”.

3           (g) SECTION 204.—Section 204 of such Act (15  
4 U.S.C. 5524) is amended—

5           (1) in subsection (a)(1)—

6           (A) in subparagraph (A), by striking  
7           “high-performance computing systems and net-  
8           works” and inserting “networking and informa-  
9           tion technology systems and capabilities”;

10          (B) in subparagraph (B), by striking  
11          “interoperability of high-performance com-  
12          puting systems in networks and for common  
13          user interfaces to systems” and inserting  
14          “interoperability and usability of networking  
15          and information technology systems”; and

16          (C) in subparagraph (C), by striking  
17          “high-performance computing” and inserting  
18          “networking and information technology”; and

19          (2) in subsection (b)—

20          (A) in the heading, by striking “HIGH-  
21          PERFORMANCE COMPUTING AND NETWORK”  
22          and inserting “NETWORKING AND INFORMA-  
23          TION TECHNOLOGY”; and

24          (B) by striking “sensitive”.



1 (h) SECTION 205.—Section 205(a) of such Act (15  
2 U.S.C. 5525(a)) is amended by striking “computational”  
3 and inserting “networking and information technology”.

4 (i) SECTION 206.—Section 206(a) of such Act (15  
5 U.S.C. 5526(a)) is amended by striking “computational  
6 research” and inserting “networking and information  
7 technology research”.

8 (j) SECTION 207.—Section 207(b) of such Act (15  
9 U.S.C. 5527(b)) is amended by striking “high-perform-  
10 ance computing” and inserting “networking and informa-  
11 tion technology”.

12 (k) SECTION 208.—Section 208 of such Act (15  
13 U.S.C. 5528) is amended—

14 (1) in the section heading, by striking “**HIGH-**  
15 **PERFORMANCE COMPUTING**” and inserting  
16 “**NETWORKING AND INFORMATION TECH-**  
17 **NOLOGY**”; and

18 (2) in subsection (a)—

19 (A) in paragraph (1), by striking “High-  
20 performance computing and associated” and in-  
21 serting “Networking and information”;

22 (B) in paragraph (2), by striking “high-  
23 performance computing” and inserting “net-  
24 working and information technologies”;

1           (C) in paragraph (3), by striking “high-  
2 performance” and inserting “high-end”;

3           (D) in paragraph (4), by striking “high-  
4 performance computers and associated” and in-  
5 sserting “networking and information”; and

6           (E) in paragraph (5), by striking “high-  
7 performance computing and associated” and in-  
8 sserting “networking and information”.

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