Union Calendar No.

113TH CONGRESS 1ST SESSION

H. R. 967

[Report No. 113-]

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

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

March --, 2013

Reported with an amendment, committed to the Committee of the Whole House on the State of the Union, and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in italic]

[For text of introduced bill, see copy of bill as introduced on March 5, 2013]

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 De-
6	velopment 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) is
10	amended by adding at the end the following new subsection:
11	"(d) Periodic Reviews.—The agencies identified in
12	subsection (a)(3)(B) shall—
13	"(1) periodically assess the contents and funding
14	levels of the Program Component Areas and restruc-
15	ture the Program when warranted, taking into con-
16	sideration any relevant recommendations of the advi-
17	sory committee established under subsection (b); and
18	"(2) ensure that the Program includes large-
19	scale, long-term, interdisciplinary research and devel-
20	opment activities, including activities described in
21	section 104.".
22	(b) Development of Strategic Plan.—Section 101
23	of such Act (15 U.S.C. 5511) is amended further by adding
24	after subsection (d), as added by subsection (a) of this Act,
25	the following new subsection:

1	"(e) Strategic Plan.—
2	"(1) In General.—The agencies identified in
3	subsection $(a)(3)(B)$, working through the National
4	Science and Technology Council and with the assist-
5	ance of the National Coordination Office described
6	under section 102, shall develop, within 12 months
7	after the date of enactment of the Advancing Amer
8	ica's Networking and Information Technology Re-
9	search and Development Act of 2013, and update
10	every 3 years thereafter, a 5-year strategic plan to
11	guide the activities described under subsection (a)(1)
12	"(2) Contents.—The strategic plan shall speci
13	fy near-term and long-term objectives for the Pro-
14	gram, the anticipated time frame for achieving the
15	near-term objectives, the metrics to be used for assess-
16	ing progress toward the objectives, and how the Pro-
17	gram will—
18	"(A) foster the transfer of research and de-
19	velopment results into new technologies and ap-
20	plications for the benefit of society, including
21	through cooperation and collaborations with net
22	working and information technology research
23	development, and technology transition initia
24	tives supported by the States;

1	"(B) encourage and support mechanisms for
2	interdisciplinary research and development in
3	networking and information technology, includ-
4	ing through collaborations across agencies, across
5	Program Component Areas, with industry, with
6	Federal laboratories (as defined in section 4 of
7	the Stevenson-Wydler Technology Innovation Act
8	of 1980 (15 U.S.C. 3703)), and with inter-
9	$national\ organizations;$
10	"(C) address long-term challenges of na-
11	tional importance for which solutions require
12	large-scale, long-term, interdisciplinary research
13	and development;
14	"(D) place emphasis on innovative and
15	high-risk projects having the potential for sub-
16	stantial societal returns on the research invest-
17	ment;
18	"(E) strengthen all levels of networking and
19	information technology education and training
20	programs to ensure an adequate, well-trained
21	workforce; and
22	"(F) attract more women and underrep-
23	resented minorities to pursue postsecondary de-
24	grees in networking and information technology.

1	"(3) National research infrastructure.—
2	The strategic plan developed in accordance with para-
3	graph (1) shall be accompanied by milestones and
4	roadmaps for establishing and maintaining the na-
5	tional research infrastructure required to support the
6	Program, including the roadmap required by sub-
7	section $(a)(2)(E)$.
8	"(4) Recommendations.—The entities involved
9	in developing the strategic plan under paragraph (1)
10	shall take into consideration the recommendations—
11	"(A) of the advisory committee established
12	under subsection (b); and
13	"(B) of the stakeholders whose input was so-
14	licited by the National Coordination Office, as
15	required under section $102(b)(3)$.
16	"(5) Report to congress.—The Director of the
17	National Coordination Office shall transmit the stra-
18	tegic plan required under paragraph (1) to the advi-
19	sory committee, the Committee on Commerce, Science,
20	and Transportation of the Senate, and the Committee
21	on Science, Space, and Technology of the House of
22	Representatives.".
23	(c) Additional Responsibilities of Director.—
24	Section $101(a)(2)$ of such Act (15 U.S.C. $5511(a)(2)$) is
25	amended—

1	(1) in subparagraph (A) by inserting "edu-
2	cation," before "and other activities";
3	(2) by redesignating subparagraphs (E) and (F)
4	as subparagraphs (F) and (G), respectively; and
5	(3) by inserting after subparagraph (D) the fol-
6	lowing new subparagraph:
7	"(E) encourage and monitor the efforts of the
8	agencies participating in the Program to allocate the
9	level of resources and management attention necessary
10	to ensure that the strategic plan under subsection (e)
11	is developed and executed effectively and that the ob-
12	jectives of the Program are met;".
13	(d) Advisory Committee.—Section 101(b)(1) of such
14	Act (15 U.S.C. 5511(b)(1)) is amended—
15	(1) after the first sentence, by inserting the fol-
16	lowing: "The co-chairs of the advisory committee shall
17	meet the qualifications of committee membership and
18	may be members of the President's Council of Advi-
19	sors on Science and Technology."; and
20	(2) in subparagraph (D), by striking "high-per-
21	formance" and inserting "high-end".
22	(e) Report.—Section 101(a)(3) of such Act (15 U.S.C.
23	5511(a)(3)) is amended—
24	(1) in subparagraph (B)—

1	(A) by redesignating clauses (vii) through
2	(xi) as clauses (viii) through (xii), respectively;
3	and
4	(B) by inserting after clause (vi) the fol-
5	lowing:
6	"(vii) the Department of Homeland
7	Security;";
8	(2) in subparagraph (C)—
9	(A) by striking "is submitted," and insert-
10	ing "is submitted, the levels for the previous fis-
11	cal year,"; and
12	(B) by striking "each Program Component
13	Area;" and inserting "each Program Component
14	Area and research area supported in accordance
15	with section 104;";
16	(3) in subparagraph (D)—
17	(A) by striking "each Program Component
18	Area," and inserting "each Program Component
19	Area and research area supported in accordance
20	with section 104,";
21	(B) by striking "is submitted," and insert-
22	ing "is submitted, the levels for the previous fis-
23	cal year,"; and
24	(C) by striking "and" after the semicolon;

1	(4) by redesignating subparagraph (E) as sub-
2	paragraph (G); and
3	(5) by inserting after subparagraph (D) the fol-
4	lowing new subparagraphs:
5	"(E) include a description of how the objectives
6	for each Program Component Area, and the objectives
7	for activities that involve multiple Program Compo-
8	nent Areas, relate to the objectives of the Program
9	identified in the strategic plan required under sub-
10	section (e);
11	"(F) include—
12	"(i) a description of the funding required
13	by the National Coordination Office to perform
14	the functions specified under section 102(b) for
15	the next fiscal year by category of activity;
16	"(ii) a description of the funding required
17	by such Office to perform the functions specified
18	under section 102(b) for the current fiscal year
19	by category of activity; and
20	"(iii) the amount of funding provided for
21	such Office for the current fiscal year by each
22	agency participating in the Program; and".
23	(f) Definition.—Section 4 of such Act (15 U.S.C.
24	5503) is amended—

1	(1) by redesignating paragraphs (1) through (7)
2	as paragraphs (2) through (8), respectively;
3	(2) by inserting before paragraph (2), as so re-
4	designated, the following new paragraph:
5	"(1) 'cyber-physical systems' means physical or
6	engineered systems whose networking and information
7	technology functions and physical elements are deeply
8	integrated and are actively connected to the physical
9	world through sensors, actuators, or other means to
10	perform monitoring and control functions;";
11	(3) in paragraph (3), as so redesignated, by
12	striking "high-performance computing" and inserting
13	"networking and information technology";
14	(4) in paragraph (4), as so redesignated—
15	(A) by striking "high-performance com-
16	puting" and inserting "networking and informa-
17	tion technology"; and
18	(B) by striking "supercomputer" and in-
19	serting "high-end computing";
20	(5) in paragraph (6), as so redesignated, by
21	striking "network referred to as" and all that follows
22	through the semicolon and inserting "network, includ-
23	ing advanced computer networks of Federal agencies
24	and departments;"; and

1	(6) in paragraph (7), as so redesignated, by
2	striking "National High-Performance Computing
3	Program" and inserting "networking and informa-
4	tion technology research and development program".
5	SEC. 3. LARGE-SCALE RESEARCH IN AREAS OF NATIONAL
6	IMPORTANCE.
7	Title I of such Act (15 U.S.C. 5511) is amended by
8	adding at the end the following new section:
9	"SEC. 104. LARGE-SCALE RESEARCH IN AREAS OF NA-
10	TIONAL IMPORTANCE.
11	"(a) In General.—The Program shall encourage
12	agencies identified in section 101(a)(3)(B) to support large-
13	scale, long-term, interdisciplinary research and develop-
14	ment activities in networking and information technology
15	directed toward application areas that have the potential
16	for significant contributions to national economic competi-
17	tiveness and for other significant societal benefits. Such ac-
18	tivities, ranging from basic research to the demonstration
19	of technical solutions, shall be designed to advance the devel-
20	opment of research discoveries. The advisory committee es-
21	tablished under section 101(b) shall make recommendations
22	to the Program for candidate research and development
23	areas for support under this section.
24	"(b) Characteristics.—

1	"(1) In General.—Research and development
2	activities under this section shall—
3	"(A) include projects selected on the basis of
4	applications for support through a competitive,
5	merit-based process;
6	"(B) involve collaborations among research-
7	ers in institutions of higher education and in-
8	dustry, and may involve nonprofit research in-
9	stitutions and Federal laboratories, as appro-
10	priate;
11	"(C) when possible, leverage Federal invest-
12	ments through collaboration with related State
13	initiatives; and
14	"(D) include a plan for fostering the trans-
15	fer of research discoveries and the results of tech-
16	nology demonstration activities, including from
17	institutions of higher education and Federal lab-
18	oratories, to industry for commercial develop-
19	ment.
20	"(2) Cost-sharing.—In selecting applications
21	for support, the agencies shall give special consider-
22	ation to projects that include cost sharing from non-
23	Federal sources.
24	"(3) Agency collaboration.—If 2 or more
25	agencies identified in section 101(a)(3)(B), or other

1	appropriate agencies, are working on large-scale re-
2	search and development activities in the same area of
3	national importance, then such agencies shall strive
4	to collaborate through joint solicitation and selection
5	of applications for support and subsequent funding of
6	projects.
7	"(4) Interdisciplinary research centers.—
8	Research and development activities under this sec-
9	tion may be supported through interdisciplinary re-
10	search centers that are organized to investigate basic
11	research questions and carry out technology dem-
12	onstration activities in areas described in subsection
13	(a). Research may be carried out through existing
14	interdisciplinary centers, including those authorized
15	under section 7024(b)(2) of the America COMPETES
16	Act (Public Law 110-69; 42 U.S.C. 18620-10).".
17	SEC. 4. CYBER-PHYSICAL SYSTEMS.
18	(a) Additional Program Characteristics.—Sec-
19	tion 101(a)(1) of such Act (15 U.S.C. 5511(a)(1)) is amend-
20	ed—
21	(1) in subparagraph (H), by striking "and"
22	after the semicolon;
23	(2) in subparagraph (I)—

1	(A) by striking "improving the security"
2	and inserting "improving the security, reli-
3	ability, and resilience"; and
4	(B) by striking the period at the end and
5	inserting a semicolon; and
6	(3) by adding at the end the following new sub-
7	paragraphs:
8	" (J) provide for increased understanding of the
9	scientific principles of cyber-physical systems and im-
10	prove the methods available for the design, develop-
11	ment, and operation of cyber-physical systems that
12	are characterized by high reliability, safety, and secu-
13	rity; and
14	"(K) provide for research and development on
15	human-computer interactions, visualization, and big
16	data.".
17	(b) Workshop.—Title I of such Act (15 U.S.C. 5511)
18	is amended further by adding after section 104, as added
19	by section 3 of this Act, the following new section:
20	"SEC. 105. UNIVERSITY/INDUSTRY WORKSHOP.
21	"(a) Establishment.—Not later than 1 year after the
22	date of enactment of the Advancing America's Networking
23	$and\ Information\ Technology\ Research\ and\ Development\ Act$
24	of 2013, the Director of the National Coordination Office
25	shall convene a workshop, with participants from institu-

1	tions of higher education, Federal laboratories, and indus-
2	try, to explore mechanisms for carrying out collaborative
3	research and development activities for cyber-physical sys-
4	tems, including the related technologies required to enable
5	these systems, and to develop grand challenges in cyber-
6	physical systems research and development.
7	"(b) Functions.—The workshop participants shall—
8	"(1) develop options for models for research and
9	development partnerships among institutions of high-
10	er education, Federal laboratories, and industry, in-
11	cluding mechanisms for the support of research and
12	development carried out under these partnerships;
13	"(2) develop options for grand challenges in
14	cyber-physical systems research and development that
15	would be addressed through such partnerships;
16	"(3) propose guidelines for assigning intellectual
17	property rights and for the transfer of research results
18	to the private sector; and
19	"(4) make recommendations for how Federal
20	agencies participating in the Program can help sup-
21	port research and development partnerships in cyber-
22	physical systems, including through existing or new
23	grant programs.
24	"(c) Participants.—The Director of the National Co-
25	ordination Office shall ensure that participants in the

- 1 workshop are individuals with knowledge and expertise in
- 2 cyber-physical systems and that participants represent a
- 3 broad mix of relevant stakeholders, including academic and
- 4 industry researchers, cyber-physical systems and tech-
- 5 nologies manufacturers, cyber-physical systems and tech-
- 6 nologies users, and, as appropriate, Federal government
- 7 regulators.
- 8 "(d) Report.—Not later than 18 months after the
- 9 date of enactment of the Advancing America's Networking
- 10 and Information Technology Research and Development Act
- 11 of 2013, the Director of the National Coordination Office
- 12 shall transmit to the Committee on Commerce, Science, and
- 13 Transportation of the Senate and the Committee on
- 14 Science, Space, and Technology of the House of Representa-
- 15 tives a report describing the findings and recommendations
- 16 resulting from the workshop required under this section.".
- 17 SEC. 5. CLOUD COMPUTING SERVICES FOR RESEARCH.
- 18 Title I of such Act (15 U.S.C. 5511) is amended further
- 19 by adding after section 105, as added by section 4(b) of
- 20 this Act, the following new section:
- 21 "SEC. 106. CLOUD COMPUTING SERVICES FOR RESEARCH.
- 22 "(a) Interagency Working Group.—Not later than
- 23 180 days after the date of enactment of the Advancing
- 24 America's Networking and Information Technology Re-
- 25 search and Development Act of 2013, the Director of the

1	National Coordination Office, working through the Na-
2	tional Science and Technology Council, shall convene an
3	interagency working group to examine—
4	"(1) the research and development needed—
5	"(A) to enhance the effectiveness and effi-
6	ciency of cloud computing environments;
7	"(B) to increase the trustworthiness of cloud
8	applications and infrastructure; and
9	"(C) to enhance the foundations of cloud ar-
10	chitectures, programming models, and interoper-
11	ability; and
12	"(2) how Federal science agencies can facilitate
13	the use of cloud computing for federally funded
14	science and engineering research, including—
15	"(A) making recommendations on changes
16	in funding mechanisms, budget models, and poli-
17	cies needed to remove barriers to the adoption of
18	cloud computing services for research and for
19	data preservation and sharing; and
20	"(B) providing guidance to organizations
21	and researchers on opportunities and guidelines
22	for using cloud computing services for federally
23	supported research and related activities.
24	"(b) Consultation.—In carrying out the tasks in
25	paragraphs (1) and (2) of subsection (a), the working group

- 1 shall consult with academia, industry, Federal laboratories,
- 2 and other relevant organizations and institutions, as ap-
- 3 propriate.
- 4 "(c) Report.—Not later than 1 year after the date
- 5 of enactment of the Advancing America's Networking and
- 6 Information Technology Research and Development Act of
- 7 2013, the Director of the National Coordination Office shall
- 8 transmit to the Committee on Science, Space, and Tech-
- 9 nology of the House of Representatives and the Committee
- 10 on Commerce, Science, and Transportation of the Senate
- 11 a report describing the findings and any recommendations
- 12 of the working group.
- 13 "(d) Termination.—The interagency working group
- 14 shall terminate upon transmittal of the report required
- 15 under subsection (c).".
- 16 SEC. 6. NATIONAL COORDINATION OFFICE.
- 17 Section 102 of such Act (15 U.S.C. 5512) is amended
- 18 to read as follows:
- 19 "SEC. 102. NATIONAL COORDINATION OFFICE.
- 20 "(a) Office.—The Director shall continue a National
- 21 Coordination Office with a Director and full-time staff.
- 22 "(b) Functions.—The National Coordination Office
- 23 shall—
- 24 "(1) provide technical and administrative sup-
- 25 *port to—*

1	"(A) the agencies participating in planning
2	and implementing the Program, including such
3	support as needed in the development of the stra-
4	tegic plan under section 101(e); and
5	"(B) the advisory committee established
6	$under\ section\ 101(b);$
7	"(2) serve as the primary point of contact on
8	Federal networking and information technology ac-
9	tivities for government organizations, academia, in-
10	dustry, professional societies, State computing and
11	networking technology programs, interested citizen
12	groups, and others to exchange technical and pro-
13	grammatic information;
14	"(3) solicit input and recommendations from a
15	wide range of stakeholders during the development of
16	each strategic plan required under section 101(e)
17	through the convening of at least 1 workshop with
18	invitees from academia, industry, Federal labora-
19	tories, and other relevant organizations and institu-
20	tions;
21	"(4) conduct public outreach, including the dis-
22	semination of findings and recommendations of the
23	advisory committee, as appropriate; and
24	"(5) promote access to and early application of
25	the technologies, innovations, and expertise derived

1	from Program activities to agency missions and sys-
2	tems across the Federal Government and to United
3	States industry.
4	"(c) Source of Funding.—
5	"(1) In General.—The operation of the Na-
6	tional Coordination Office shall be supported by
7	funds from each agency participating in the Pro-
8	gram.
9	"(2) Specifications.—The portion of the total
10	budget of such Office that is provided by each agency
11	for each fiscal year shall be in the same proportion
12	as each such agency's share of the total budget for the
13	Program for the previous fiscal year, as specified in
14	the report required under section $101(a)(3)$.".
15	SEC. 7. IMPROVING NETWORKING AND INFORMATION
16	
	TECHNOLOGY EDUCATION.
17	TECHNOLOGY EDUCATION. Section 201(a) of such Act (15 U.S.C. 5521(a)) is
	Section 201(a) of such Act (15 U.S.C. 5521(a)) is
18	Section 201(a) of such Act (15 U.S.C. 5521(a)) is amended—
18 19	Section 201(a) of such Act (15 U.S.C. 5521(a)) is amended— (1) by redesignating paragraphs (2) through (4)
18 19 20	Section 201(a) of such Act (15 U.S.C. 5521(a)) is amended— (1) by redesignating paragraphs (2) through (4) as paragraphs (3) through (5), respectively; and
18 19 20 21	Section 201(a) of such Act (15 U.S.C. 5521(a)) is amended— (1) by redesignating paragraphs (2) through (4) as paragraphs (3) through (5), respectively; and (2) by inserting after paragraph (1) the fol-
18 19 20 21 22	Section 201(a) of such Act (15 U.S.C. 5521(a)) is amended— (1) by redesignating paragraphs (2) through (4) as paragraphs (3) through (5), respectively; and (2) by inserting after paragraph (1) the following new paragraph:

1	learning of networking and information technology at
2	all levels of education and to increase participation
3	in networking and information technology fields, in-
4	cluding by women and underrepresented minorities;".
5	SEC. 8. CONFORMING AND TECHNICAL AMENDMENTS.
6	(a) Section 3.—Section 3 of such Act (15 U.S.C.
7	5502) is amended—
8	(1) in the matter preceding paragraph (1), by
9	striking "high-performance computing" and inserting
10	"networking and information technology";
11	(2) in paragraph (1)—
12	(A) in the matter preceding subparagraph
13	(A), by striking "high-performance computing"
14	and inserting "networking and information tech-
15	nology";
16	(B) in subparagraphs (A), (F), and (G), by
17	striking "high-performance computing" each
18	place it appears and inserting "networking and
19	information technology"; and
20	(C) in subparagraph (H), by striking
21	"high-performance" and inserting "high-end";
22	and
23	(3) in paragraph (2)—

1	(A) by striking 'high-performance com-
2	puting and" and inserting "networking and in-
3	formation technology and"; and
4	(B) by striking "high-performance com-
5	puting network" and inserting "networking and
6	$information\ technology".$
7	(b) Title I.—The heading of title I of such Act (15
8	U.S.C. 5511) is amended by striking " HIGH-PER-
9	FORMANCE COMPUTING" and inserting "NET-
10	WORKING AND INFORMATION TECH-
11	NOLOGY".
12	(c) Section 101.—Section 101 of such Act (15 U.S.C.
13	5511) is amended—
14	(1) in the section heading, by striking "HIGH-
15	PERFORMANCE COMPUTING " and inserting
16	"NETWORKING AND INFORMATION TECH-
17	NOLOGY RESEARCH AND DEVELOPMENT";
18	(2) in subsection (a)—
19	(A) in the subsection heading, by striking
20	"National High-Performance Computing"
21	and inserting "Networking and Information
22	Technology Research and Development";
23	(B) in paragraph (1) of such subsection—
24	(i) in the matter preceding subpara-
25	graph (A), by striking "National High-Per-

1	formance Computing Program" and insert-
2	ing "networking and information tech-
3	nology research and development program";
4	(ii) in subparagraph (A), by striking
5	"high-performance computing, including
6	networking" and inserting "networking and
7	$information\ technology";$
8	(iii) in subparagraphs (B) and (G), by
9	striking "high-performance" each place it
10	appears and inserting "high-end"; and
11	(iv) in subparagraph (C), by striking
12	'high-performance computing and net-
13	working" and inserting "high-end com-
14	puting, distributed, and networking"; and
15	(C) in paragraph (2) of such subsection—
16	(i) in subparagraphs (A) and (C)—
17	(I) by striking "high-performance
18	computing" each place it appears and
19	inserting "networking and information
20	technology"; and
21	(II) by striking "development,
22	networking," each place it appears and
23	inserting "development,"; and
24	(ii) in subparagraphs (F) and (G), as
25	redesignated by section $2(c)(1)$ of this Act,

1	by striking "high-performance" each place
2	it appears and inserting "high-end";
3	(3) in subsection (b)—
4	(A) in paragraph (1), in the matter pre-
5	ceding subparagraph (A), by striking "high-per-
6	formance computing" both places it appears and
7	inserting "networking and information tech-
8	nology"; and
9	(B) in paragraph (2), in the second sen-
10	tence, by striking "2" and inserting "3"; and
11	(4) in subsection $(c)(1)(A)$, by striking "high-
12	performance computing" and inserting "networking
13	and information technology".
14	(d) Section 201.—Section 201(a)(1) of such Act (15
15	U.S.C. 5521(a)(1)) is amended by striking "high-perform-
16	ance computing" and all that follows through "net-
17	working;" and inserting "networking and information re-
18	search and development;".
19	(e) Section 202.—Section 202(a) of such Act (15
20	U.S.C. 5522(a)) is amended by striking "high-performance
21	computing" and inserting "networking and information
22	technology".
23	(f) Section 203.—Section 203(a) of such Act (15
24	U.S.C. 5523(a)(1)) is amended—

1	(1) in paragraph (1), by striking "high-perform-
2	ance computing and networking" and inserting "net-
3	working and information technology"; and
4	(2) in paragraph (2)(A), by striking "high-per-
5	formance" and inserting "high-end".
6	(g) Section 204.—Section 204 of such Act (15 U.S.C.
7	5524) is amended—
8	(1) in subsection (a)(1)—
9	(A) in subparagraph (A), by striking "high-
10	performance computing systems and networks"
11	and inserting "networking and information tech-
12	nology systems and capabilities";
13	(B) in subparagraph (B), by striking
14	"interoperability of high-performance computing
15	systems in networks and for common user inter-
16	faces to systems" and inserting "interoperability
17	and usability of networking and information
18	technology systems"; and
19	(C) in subparagraph (C), by striking "high-
20	performance computing" and inserting "net-
21	working and information technology"; and
22	(2) in subsection (b)—
23	(A) in the heading, by striking "High-Per-
24	FORMANCE COMPUTING AND NETWORK" and in-

1	serting "Networking and Information Tech-
2	NOLOGY''; and
3	(B) by striking "sensitive".
4	(h) Section 205.—Section 205(a) of such Act (15
5	U.S.C. 5525(a)) is amended by striking "computational"
6	and inserting "networking and information technology".
7	(i) Section 206.—Section 206(a) of such Act (15
8	U.S.C. 5526(a)) is amended by striking "computational re-
9	search" and inserting "networking and information tech-
10	nology research".
11	(j) Section 207.—Section 207(b) of such Act (15
12	U.S.C. 5527(b)) is amended by striking "high-performance
13	computing" and inserting "networking and information
14	technology".
15	(k) Section 208.—Section 208 of such Act (15 U.S.C.
16	5528) is amended—
17	(1) in the section heading, by striking "HIGH-
18	PERFORMANCE COMPUTING " and inserting
19	"NETWORKING AND INFORMATION TECH-
20	NOLOGY"; and
21	(2) in subsection (a)—
22	(A) in paragraph (1), by striking "High-
23	performance computing and associated" and in-
24	serting "Networking and information";

1	(B) in paragraph (2), by striking 'high-
2	performance computing" and inserting "net-
3	working and information technologies";
4	(C) in paragraph (3), by striking "high-
5	performance" and inserting "high-end";
6	(D) in paragraph (4), by striking "high-
7	performance computers and associated" and in-
8	serting "networking and information"; and
9	(E) in paragraph (5), by striking "high-
10	performance computing and associated" and in-
11	serting "networking and information".