#### Suspend the Rules and Pass the Bill, H.R. 5312, with An Amendment

(The amendment strikes all after the enacting clause and inserts a new text)

<sup>114TH CONGRESS</sup> **H. R. 5312** 

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

MAY 24, 2016

Mr. LAHOOD (for himself, Ms. EDDIE BERNICE JOHNSON of Texas, Mr. SMITH of Texas, Mr. LIPINSKI, Mr. LUCAS, Mrs. COMSTOCK, Mr. MOOLENAAR, and Mr. ABRAHAM) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

# 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 "Networking and Infor-
- 5 mation Technology Research and Development Moderniza-
- 6 tion Act of 2016".

## 1 SEC. 2. PURPOSES.

2	Section 3 of the High-Performance Computing Act
3	of 1991 (15 U.S.C. 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 "expanding Federal support for
10	research, development, and application of high-
11	performance computing" and inserting "sup-
12	porting Federal research, development, and ap-
13	plication of networking and information tech-
14	nology'';
15	(B) in subparagraph (A), by striking
16	"high-performance computing" both places it
17	appears and inserting "networking and infor-
18	mation technology";
19	(C) by striking subparagraphs (C) and
20	(D);
21	(D) by inserting after subparagraph (B)
22	the following:
23	"(C) stimulate research on and promote
24	more rapid development of high-end computing
25	systems software and applications software;";

1	(E) by redesignating subparagraphs (E)
2	through (H) as subparagraphs (D) through
3	(G), respectively;
4	(F) in subparagraph (D), as so redesig-
5	nated, by inserting "high-end" after "the devel-
6	opment of";
7	(G) in subparagraphs (E) and (F), as so
8	redesignated, by striking "high-performance
9	computing" each place it appears and inserting
10	"networking and information technology"; and
11	(H) in subparagraph (G), as so redesig-
12	nated, by striking "high-performance" and in-
13	serting "high-end"; and
14	(3) in paragraph (2)—
15	(A) by striking "high-performance com-
16	puting and" and inserting "networking and in-
17	formation technology and"; and
18	(B) by striking "high-performance com-
19	puting network" and inserting "networking and
20	information technology".
21	SEC. 3. DEFINITIONS.
22	Section 4 of the High-Performance Computing Act
23	of 1991 (15 U.S.C. 5503) is amended—
24	(1) by striking paragraphs $(3)$ and $(5)$ ;

(2) by redesignating paragraphs $(1)$ , $(2)$ , $(4)$ ,
(6), and $(7)$ as paragraphs $(2)$ , $(3)$ , $(5)$ , $(7)$ , and
(8), respectively;
(3) by inserting before paragraph (2), as so re-
designated, the following new paragraph:
((1) 'cyber-physical systems' means physical or
engineered systems whose networking and informa-
tion technology functions and physical elements are
deeply integrated and are actively connected to the
physical world through sensors, actuators, or other
means to perform monitoring and control func-
tions;";
(4) in paragraph $(3)$ , as so redesignated, by
striking "high-performance computing" and insert-
ing "networking and information technology";
(5) by inserting after paragraph $(3)$ , as so re-
designated, the following new paragraph:
"(4) 'high-end computing' means the most ad-
vanced and capable computing systems, including
their hardware, storage, networking and software,

- 22 and large-scale data analytics;";
- 23 (6) by inserting after paragraph (5), as so re-24 designated, the following new paragraph:

encompassing both massive computational capability

"(6) 'networking and information technology'
means high-end computing, communications, and information technologies, high-capacity and high-speed
networks, special purpose and experimental systems,
high-end computing systems software and applications software, and the management of large data
sets;"; and

8 (7) in paragraph (7), as so redesignated, by 9 striking "National High-Performance Computing 10 Program" and inserting "Networking and Informa-11 tion Technology Research and Development Pro-12 gram".

#### 13 SEC. 4. TITLE I HEADING.

14 The heading of title I of such Act (15 U.S.C. 5511 15 et seq.) is amended by striking "HIGH-PERFORM-ANCE **COMPUTING**" "NET-16 and inserting WORKING AND **INFORMATION TECH-**17 18 NOLOGY".

SEC. 5. NETWORKING AND INFORMATION TECHNOLOGY
 RESEARCH AND DEVELOPMENT PROGRAM.
 Section 101 of the High-Performance Computing Act

22 of 1991 (15 U.S.C. 5511) is amended—

(1) in the section heading, by striking "NATIONAL HIGH-PERFORMANCE COMPUTING
PROGRAM" and inserting "NETWORKING AND

1	INFORMATION TECHNOLOGY RESEARCH AND
2	DEVELOPMENT PROGRAM'';
3	(2) in subsection (a)—
4	(A) in the subsection heading, by striking
5	"NATIONAL HIGH-PERFORMANCE COMPUTING
6	PROGRAM" and inserting "NETWORKING AND
7	INFORMATION TECHNOLOGY RESEARCH AND
8	DEVELOPMENT'';
9	(B) in paragraph (1)—
10	(i) in the matter preceding subpara-
11	graph (A), by striking "National High-Per-
12	formance Computing Program" and insert-
13	ing "Networking and Information Tech-
14	nology Research and Development Pro-
15	gram";
16	(ii) in subparagraph (A), by striking
17	"high-performance computing, including
18	networking" and inserting "networking
19	and information technology";
20	(iii) in subparagraphs (B) and (G), by
21	striking "high-performance" each place it
22	appears and inserting "high-end";
23	(iv) in subparagraph (C), by striking
24	"high-performance computing and net-

1	working" and inserting "high-end com-
2	puting, distributed, and networking';
3	(v) by amending subparagraph (D) to
4	read as follows:
5	"(D) provide for efforts to increase software se-
6	curity and reliability;";
7	(vi) in subparagraph (H)—
8	(I) by inserting "support and
9	guidance" after "provide"; and
10	(II) by striking "and" after the
11	semicolon;
12	(vii) in subparagraph (I)—
13	(I) by striking "improving the se-
14	curity" and inserting "improving the
15	security, reliability, and resilience";
16	and
17	(II) by striking the period at the
18	end and inserting a semicolon; and
19	(viii) by adding at the end the fol-
20	lowing new subparagraphs:
21	"(J) provide for increased understanding of the
22	scientific principles of cyber-physical systems and
23	improve the methods available for the design, devel-
24	opment, and operation of cyber-physical systems

1	that are characterized by high reliability, safety, and
2	security;
3	"(K) provide for research and development on
4	human-computer interactions, visualization, and big
5	data;
6	"(L) provide for research and development on
7	the enhancement of cybersecurity; and
8	"(M) provide for a research framework to lever-
9	age cyber-physical systems, high capacity and high
10	speed communication networks, and large-scale data
11	analytics to integrate city-scale information tech-
12	nology and physical infrastructures.";
13	(C) in paragraph (2)—
14	(i) by amending subparagraph (A) to
15	read as follows:
16	"(A) establish the goals and priorities for Fed-
17	eral networking and information technology re-
18	search, development, education, and other activi-
19	ties;";
20	(ii) by amending subparagraph (C) to
21	read as follows:
22	"(C) provide for interagency coordination of
23	Federal networking and information technology re-
24	search, development, education, and other activities
25	undertaken pursuant to the Program;";

1	(iii) by amending subparagraph (E) to
2	read as follows:
3	"(E) encourage and monitor the efforts of the
4	agencies participating in the Program to allocate the
5	level of resources and management attention nec-
6	essary to ensure that the strategic plan under sub-
7	section (e) is developed and executed effectively and
8	that the objectives of the Program are met; and";
9	and
10	(iv) in subparagraph (F), by striking
11	"high-performance" and inserting "high-
12	end'';
13	(D) in paragraph (3)—
14	(i) by redesignating subparagraphs
15	(B), (C), (D), and (E) as subparagraphs
16	(E), (F), (G), and (J), respectively;
17	(ii) by inserting after subparagraph
18	(A) the following new subparagraphs:
19	"(B) provide, as appropriate, a list of the senior
20	steering groups and strategic plans that are planned
21	or underway as addressed under section 104;
22	"(C) provide a description of workshops and
23	other activities conducted under section 104, includ-
24	ing participants and findings;

1	"(D) provide a detailed description of the na-
2	ture and scope of research infrastructure designated
3	as such under the Program;";
4	(iii) in subparagraph (E), as so redes-
5	ignated—
6	(I) by redesignating clauses (vii)
7	through (xi) as clauses (viii) through
8	(xii), respectively; and
9	(II) by inserting after clause (vi)
10	the following:
11	"(vii) the Department of Homeland Secu-
12	rity;";
13	(iv) in subparagraph (F), as so redes-
14	ignated—
15	(I) by striking "is submitted,"
16	and inserting "is submitted, the levels
17	for the previous fiscal year,"; and
18	(II) by striking "each Program
19	Component Area;" and inserting
20	"each Program Component Area and
21	research area supported in accordance
22	with section 103;";
23	(v) by amending subparagraph (G), as
24	so redesignated, to read as follows:

1	"(G) describe the levels of Federal funding for
2	each agency and department participating in the
3	Program, and for each Program Component Area,
4	for the fiscal year during which such report is sub-
5	mitted, the levels for the previous fiscal year, and
6	the levels proposed for the fiscal year with respect
7	to which the budget submission applies;"; and
8	(vi) by inserting after subparagraph
9	(G), as so redesignated, the following:
10	"(H) include a description of how the objectives
11	for each Program Component Area, and the objec-
12	tives for activities that involve multiple Program
13	Component Areas, relate to the objectives of the
14	Program identified in the strategic plan required
15	under subsection (e);
16	"(I) include—
17	"(i) a description of the funding required
18	by the National Coordination Office to perform
19	the functions specified under section $102(b)$ for
20	the current fiscal year;
21	"(ii) a description of the estimated funding
22	required by such Office to perform the func-
23	tions specified under section 102(b) for the next
24	fiscal year; and

1	"(iii) the amount of funding provided for
2	such Office for the current fiscal year by each
3	agency participating in the Program; and";
4	(3) in subsection (b)—
5	(A) in paragraph (1), in the matter pre-
6	ceding subparagraph (A)—
7	(i) by striking "high-performance
8	computing" both places it appears and in-
9	serting "networking and information tech-
10	nology"; and
11	(ii) after the first sentence, by insert-
12	ing the following: "Each chair of the advi-
13	sory committee shall meet the qualifica-
14	tions of committee membership and may
15	be a member of the President's Council of
16	Advisors on Science and Technology.";
17	(B) in paragraph $(1)(D)$ , by striking
18	"high-performance computing, networking tech-
19	nology, and related software" and inserting
20	"networking and information technology"; and
21	(C) in paragraph (2)—
22	(i) in the second sentence, by striking
23	"2" and inserting "3";
24	(ii) by striking "Committee on Science
25	and Technology" and inserting "Com-

1	mittee on Science, Space, and Tech-
2	nology"; and
3	(iii) by striking "The first report shall
4	be due within 1 year after the date of en-
5	actment of the America COMPETES
6	Act.'';
7	(4) in subsection $(c)(1)(A)$ , by striking "high-
8	performance computing" and inserting "networking
9	and information technology"; and
10	(5) by adding at the end the following new sub-
11	sections:
12	"(d) PERIODIC REVIEWS.—The agencies identified in
13	subsection $(a)(3)(B)$ shall—
14	((1) periodically assess and update, as appro-
15	priate, the contents, scope, and funding levels of the
16	Program Component Areas and work through the
17	National Science and Technology Council and with
18	the assistance of the National Coordination Office
19	described under section 102 to restructure the Pro-
20	gram when warranted, taking into consideration any
21	relevant recommendations of the advisory committee
22	established under subsection (b); and
23	"(2) working through the National Science and
24	Technology Council and with the assistance of the
25	National Coordination Office described under section

102, ensure that the Program includes large-scale,
 long-term, interdisciplinary research and develop ment activities, including activities described in sec tion 103.

5 "(e) Strategic Plan.—

6 "(1) IN GENERAL.—The agencies identified in 7 subsection (a)(3)(B), working through the National 8 Science and Technology Council and with the assist-9 ance of the National Coordination Office described 10 under section 102, shall develop, within 12 months 11 after the date of enactment of the Networking and 12 Information Technology Research and Development 13 Modernization Act of 2016, and update every five 14 vears thereafter, a five-year strategic plan for the 15 Program.

"(2) CONTENTS.—The strategic plan shall
specify near-term and long-term cross-cutting objectives for the Program, the anticipated time frame
for achieving the near-term objectives, the metrics to
be used for assessing progress toward the objectives,
and how the Program will—

"(A) address long-term challenges of national importance for which solutions require
large-scale, long-term, interdisciplinary research
and development;

1 "(B) encourage and support mechanisms 2 for interdisciplinary research and development in networking and information technology and 3 for Grand Challenges, including through col-4 5 laborations across agencies, across Program 6 Component Areas, with industry, with Federal 7 laboratories (as defined in section 4 of the Ste-8 venson-Wydler Technology Innovation Act of 9 1980 (15 U.S.C. 3703)), and with international 10 organizations;

11 "(C) foster the transfer of research and 12 development results into new technologies and 13 applications in the national interest, including 14 through cooperation and collaborations with 15 networking and information technology re-16 search, development, and technology transition 17 initiatives supported by the States;

18 "(D) provide for cyberinfrastructure needs, 19 as appropriate, across federally funded large-20 scale research facilities that produce or will 21 produce large amounts of data that will need to 22 be stored, curated, and made publicly available; 23 "(E) strengthen all levels of networking 24 information technology education and and

1	training programs to ensure an adequate, well-
2	trained workforce; and
3	"(F) attract individuals identified in sec-
4	tions 33 and 34 of the Science and Engineering
5	Equal Opportunities Act (42 U.S.C. 1885a and
6	1885b) to networking and information tech-
7	nology fields.
8	"(3) Recommendations.—The entities in-
9	volved in developing the strategic plan under para-
10	graph (1) shall take into consideration the rec-
11	ommendations—
12	"(A) of the advisory committee established
13	under subsection (b);
14	"(B) of the Committee on Science and rel-
15	evant subcommittees of the National Science
16	and Technology Council; and
17	"(C) of the stakeholders whose input was
18	solicited by the National Coordination Office, as
19	required under section $102(b)(3)$ .
20	"(4) Report to congress.—The Director of
21	the National Coordination Office shall transmit the
22	strategic plan required under paragraph $(1)$ to the
23	advisory committee, the Committee on Science,
24	Space, and Technology of the House of Representa-

tives, and the Committee on Commerce, Science, and
 Transportation of the Senate.".

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## 3 SEC. 6. NATIONAL COORDINATION OFFICE.

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

## 6 "SEC. 102. NATIONAL COORDINATION OFFICE.

7 "(a) OFFICE.—The Director shall maintain a Na8 tional Coordination Office with a Director and full-time
9 staff.

10 "(b) FUNCTIONS.—The National Coordination Office11 shall—

12 "(1) provide technical and administrative sup-13 port to—

14 "(A) the agencies participating in planning
15 and implementing the Program, including such
16 support as needed in the development of the
17 strategic plan under section 101(e); and

18 "(B) the advisory committee established
19 under section 101(b), as appropriate;

"(2) serve as the primary point of contact on
Federal networking and information technology activities for government organizations, academia, industry, professional societies, State computing and
networking technology programs, interested citizen

groups, and others to exchange technical and pro grammatic information;

3 "(3) solicit input and recommendations from a 4 wide range of stakeholders during the development 5 of each strategic plan required under section 101(e) 6 and the scope of the Program Component Areas 7 through the convening of at least one workshop with 8 invitees from academia, industry, Federal labora-9 tories, and other relevant organizations and institu-10 tions;

11 "(4) conduct and increase outreach, including 12 to academia, industry, other relevant organizations 13 and institutions, and the public, in order to increase 14 awareness of the Program and the benefits of the 15 Program and to increase potential opportunities for 16 collaboration between agencies participating in the 17 Program and the private sector; and

"(5) promote access to and early application of
the technologies, innovations, and expertise derived
from Program activities to agency missions and systems across the Federal Government and to United
States industry.

23 "(c) Source of Funding.—

24 "(1) IN GENERAL.—The operation of the Na-25 tional Coordination Office shall be supported by

funds from each agency participating in the Pro gram, subject to the availability of appropriations
 for such purpose.

4 "(2) SPECIFICATIONS.—The portion of the total
5 budget of such Office that is authorized to be pro6 vided by each agency for each fiscal year shall be in
7 the same proportion as each such agency's share of
8 the total budget for the Program for the previous
9 fiscal year, as specified in the report required under
10 section 101(a)(3).

"(3) WAIVER.—As appropriate, the Director
may consider and approve a reduction or waiver of
an agency contribution requirement under paragraph
(2).".

#### 15 SEC. 7. NEXT GENERATION INTERNET.

16 Section 103 of such Act (15 U.S.C. 5513) is repealed.
17 SEC. 8. GRAND CHALLENGES IN AREAS OF NATIONAL IM18 PORTANCE.

19 Title I of such Act (15 U.S.C. 5511 et seq.) is amend-20 ed by adding at the end the following new section:

21 "SEC. 103. GRAND CHALLENGES IN AREAS OF NATIONAL
22 IMPORTANCE.

23 "(a) IN GENERAL.—The Program shall encourage
24 agencies identified in section 101(a)(3)(E) to support
25 large-scale, long-term, interdisciplinary research and de-

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1 velopment activities in networking and information tech-2 nology directed toward agency mission areas that have the potential for significant contributions to national economic 3 4 competitiveness and for other significant societal benefits. 5 Such activities, ranging from basic research to the demonstration of technical solutions, shall be designed to ad-6 7 vance the development of fundamental discoveries. The ad-8 visory committee established under section 101(b) shall 9 make recommendations to the Program for candidate research and development areas for support under this sec-10 11 tion.

12 "(b) CHARACTERISTICS.—

13 "(1) IN GENERAL.—Research and development
14 activities under this section shall—

15 "(A) include projects selected on the basis
16 of applications for support through a competi17 tive, merit-based process;

18 "(B) involve collaborations among re19 searchers in institutions of higher education
20 and industry, and may involve nonprofit re21 search institutions and Federal laboratories, as
22 appropriate;

23 "(C) leverage Federal investments through
24 collaboration with related State and private sec25 tor initiatives; and

f:\VHLC\061016\061016.126.xml June 10, 2016 (2:10 p.m.) "(D) include a plan for fostering the trans fer of research discoveries and the results of
 technology demonstration activities, including
 from institutions of higher education and Fed eral laboratories, to industry for commercial de velopment.

7 "(2) COST-SHARING.—In selecting applications
8 for support, the agencies may give special consider9 ation to projects that include cost sharing from non10 Federal sources.

11 "(3) AGENCY COLLABORATION.—If two or more 12 agencies identified in section 101(a)(3)(E), or other 13 appropriate agencies, are working on large-scale net-14 working and information technology research and 15 development activities in the same area of national 16 importance, then such agencies shall strive to col-17 laborate through joint solicitation and selection of 18 applications for support and subsequent funding of 19 projects.

"(4) INTERDISCIPLINARY RESEARCH CENTERS.—Research and development activities under
this section may be supported through interdisciplinary research centers that are organized to investigate basic research questions and carry out technology demonstration activities in areas described in

subsection (a). Research may be carried out through
 existing interdisciplinary centers.".

#### **3** SEC. 9. WORKSHOPS AND SENIOR STEERING GROUPS.

4 Title I of such Act (15 U.S.C. 5511 et seq.) is amend5 ed further by adding after section 103, as added by section
6 8 of this Act, the following new section:

#### 7 "SEC. 104. ADDRESSING EMERGING ISSUES.

"(a) IN GENERAL.—In order to address emerging 8 9 issues, the Director of the National Coordination Office may conduct workshops and other activities on research 10 11 areas of emerging importance, which may include the 12 grand challenge areas identified under section 103, with participants from institutions of higher education, Federal 13 laboratories, and industry, in order to help guide Program 14 15 investments and strategic planning in those areas, including areas identified in subsection (b). 16

17 "(b) FOCUS AREAS.—In selecting research areas
18 under subsection (a), the Director of the National Coordi19 nation Office shall consider the following topics:

"(1) Data analytics to identify the current and
future state of performing inference, prediction, and
other forms of analysis of data, and methods for the
collection, management, preservation, and use of
data.

"(2) The current and future state of the
 science, engineering, policy, and social under standing of privacy protection.

4 "(3) The current and future state of funda5 mental research on the systems and science of the
6 interplay of people and computing as well as the co7 ordination and support being undertaken in areas
8 such as social computing, human-robot interaction,
9 privacy, and health-related aspects in human-com10 puter systems.

11 "(c) FUNCTIONS.—The participants in the workshops12 shall, as appropriate—

"(1) develop options for models for research
and development partnerships among institutions of
higher education, Federal laboratories, and industry,
including mechanisms for the support of research
and development carried out under these partnerships;

19 "(2) develop options for research and develop20 ment for the specific issue areas that would be ad21 dressed through such partnerships;

"(3) propose guidelines for assigning intellectual property rights and for the transfer of research
results to the private sector; and

"(4) make recommendations for how Federal
 agencies participating in the Program can help sup port research and development partnerships for the
 specific issue areas.

5 "(d) PARTICIPANTS.—The Director of the National
6 Coordination Office shall ensure that the participants in
7 the workshops—

8 "(1) are individuals with knowledge and exper-9 tise in the specific issue areas; and

10 "(2) represent a broad mix of relevant stake11 holders, including academic and industry researchers
12 and, as appropriate, Federal agencies.

13 "(e) SENIOR STEERING GROUPS AND STRATEGIC PLANS.—As appropriate, the Director of the National Co-14 15 ordination Office shall establish senior steering groups and develop focused strategic plans to coordinate and guide ac-16 17 tivities under the research areas identified under this section, taking into consideration the findings and rec-18 19 ommendations from any workshops carried out on those 20 research topics.".

### 21 SEC. 10. NATIONAL SCIENCE FOUNDATION ACTIVITIES.

22 Section 201 of such Act (15 U.S.C. 5521) is amend23 ed—

24 (1) in subsection (a) -

25 (A) in paragraph (1)—

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1	(i) by inserting "high-end" after "Na-
2	tional Science Foundation shall provide";
3	and
4	(ii) by striking "high-performance
5	computing" and all that follows through
6	"networking;" and inserting "networking
7	and information technology; and";
8	(B) by striking paragraphs (2) through
9	(4); and
10	(C) by inserting after paragraph (1) the
11	following new paragraph:
12	"(2) the National Science Foundation shall use
13	its existing programs, in collaboration with other
14	agencies, as appropriate, to improve the teaching
15	and learning of networking and information tech-
16	nology at all levels of education and to increase par-
17	ticipation in networking and information technology
18	fields, including by individuals identified in sections
19	33 and 34 of the Science and Engineering Equal
20	Opportunities Act (42 U.S.C. 1885a and 1885b).";
21	and
22	(2) by striking subsection (b).

	26
1	SEC. 11. NATIONAL AERONAUTICS AND SPACE ADMINIS-
2	TRATION ACTIVITIES.
3	Section 202 of such Act (15 U.S.C. 5522) is amend-
4	ed—
5	(1) by striking subsection (b);
6	(2) by striking "(a) GENERAL RESPONSIBIL-
7	ITIES.—"; and
8	(3) by striking "high-performance computing"
9	and inserting "networking and information tech-
10	nology".
11	SEC. 12. DEPARTMENT OF ENERGY ACTIVITIES.
12	Section 203 of such Act (15 U.S.C. 5523) is amend-
13	ed—
14	(1) by striking subsection (b);
15	(2) by striking "(a) GENERAL RESPONSIBIL-
16	ITIES.—";
17	(3) in paragraph $(1)$ , by striking "high-per-
18	formance computing and networking" and inserting
19	"networking and information technology"; and
20	(4) in paragraph (2)(A), by striking "high-per-
21	formance" and inserting "high-end".
22	SEC. 13. DEPARTMENT OF COMMERCE ACTIVITIES.
23	Section 204 of such Act (15 U.S.C. 5524) is amend-
24	ed—
25	(1) in subsection $(a)(1)$ —

1	(A) in subparagraph (A), by striking
2	"high-performance computing systems and net-
3	works" and inserting "networking and informa-
4	tion technology systems and capabilities";
5	(B) in subparagraph (B), by striking
6	"interoperability of high-performance com-
7	puting systems in networks and for common
8	user interfaces to systems" and inserting
9	"interoperability and usability of networking
10	and information technology systems"; and
11	(C) in subparagraph (C), by striking
12	"high-performance computing" and inserting
13	"networking and information technology";
14	(2) in subsection (b)—
15	(A) in the heading, by striking "HIGH-
16	Performance Computing and Network"
17	and inserting "NETWORKING AND INFORMA-
18	TION TECHNOLOGY";
19	(B) by striking "Pursuant to the Com-
20	puter Security Act of 1987 (Public Law 100–
21	235; 101 Stat. 1724), the" and inserting
22	"The"; and
23	(C) by striking "sensitive"; and
24	(3) by striking subsections (c) and (d).

1	SEC. 14. ENVIRONMENTAL PROTECTION AGENCY ACTIVI-
2	TIES.
3	Section 205 of such Act (15 U.S.C. 5525) is amend-
4	ed—
5	(1) by striking subsection (b);
6	(2) by striking "(a) GENERAL RESPONSIBIL-
7	ITIES.—";
8	(3) by striking "basic and applied";
9	(4) by striking "computational" and inserting
10	"networking and information technology"; and
11	(5) by inserting "All software and code, along
12	with any subsequent updates to the software and
13	code, developed by the Environmental Protection
14	Agency under the Program and used in conducting
15	scientific research shall be made publically available.
16	In cases where the underlying software or code is
17	proprietary or contains confidential business infor-
18	mation, the Agency shall disclose only the name and
19	vendor of the software and code used for all propri-
20	etary or confidential business information portions
21	of the software or code. The Environmental Protec-
22	tion Agency shall ensure that the research conducted
23	under the Program does not duplicate the scope or
24	aims of similar research and initiatives at other Fed-
25	eral agencies. No Environmental Protection Agency
26	funds shall be used towards research that duplicates

the scope or aims of similar research and initiatives
 at other Federal agencies." after "dynamics mod els.".

### 4 SEC. 15. ROLE OF THE DEPARTMENT OF EDUCATION.

5 Section 206 of such Act (15 U.S.C. 5526) is amend6 ed—

7 (1) by striking subsection (b);

8 (2) by striking "(a) GENERAL RESPONSIBIL9 ITIES.—"; and

10 (3) by striking "to conduct basic" and all that 11 follows through "software capabilities" and inserting 12 "to support programs and activities to improve the 13 teaching and learning of networking and information 14 technology fields and contribute to the development 15 of a skilled networking and information technology 16 workforce".

### 17 SEC. 16. MISCELLANEOUS PROVISIONS.

18 Section 207(b) of such Act (15 U.S.C. 5527(b)) is
19 amended by striking "high-performance computing" and
20 inserting "networking and information technology".

### 21 SEC. 17. REPEAL.

22 Section 208 of such Act (15 U.S.C. 5528) is repealed.

## 1 SEC. 18. ADDITIONAL REPEAL.

- 2 Section 4 of the Department of Energy High-End
- 3 Computing Revitalization Act of 2004 (15 U.S.C. 5543)
- 4 is repealed.