

2.D.1 Statement by Each Submitter

I, Yang Yu, of Room 1-404, West Main Building, Tsinghua University, 100084, Beijing, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu; **OR** (check one or both of the following):*
- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, may be covered by the following U.S. and/or foreign patents:none ;*
- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized

implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Yang Yu.

Title: Doctor

Date: May 31, 2023

Place: Beijing, China

2.D.1 Statement by Each Submitter

I, Huiwen Jia, of Room 609B, Computer Laboratory Building, Guangzhou University, 510006, Guangzhou, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu; **OR** (check one or both of the following):*
- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, may be covered by the following U.S. and/or foreign patents:none ;*
- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

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implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Huiwen Jia

Title: Doctor

Date: May 31, 2023

Place: Guangzhou, China

2.D.1 Statement by Each Submitter

I, Leibo Li, of Room 1901-1, Building 7, Zone 7, Hanyu Financial Business Center, No. 7000 Jing Shi Road, Jinan, Shandong Province, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu; **OR** (check one or both of the following):*
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- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

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made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Leibo Li

Title: CTO

Date: May 31, 2023

Place: Jinan, China

2.D.1 Statement by Each Submitter

I, Delong Ran, of Room 405, Institute for Advanced Study, Tsinghua University, 100084, Beijing, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

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- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

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implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

DeLong Ran

Title: PhD Student

Date: May 31, 2023

Place: Beijing, China

2.D.1 Statement by Each Submitter

I, Zhiyuan Qiu, Room 1901-1, Building 7, Zone 7, Hanyu Financial Business Center, No. 7000 Jing Shi Road, Jinan, Shandong Province, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

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- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

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made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Zhiyuan Qiu

Title: Engineer

Date: May 31, 2023

Place: Jinan, China

2.D.1 Statement by Each Submitter

I, Shiduo Zhang, of Room 405, Institute for Advanced Study, Tsinghua University, 100084, Beijing, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

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- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

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implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Shiduo Zhang

Title: PhD Student

Date: May 31, 2023

Place: Beijing, China

2.D.1 Statement by Each Submitter

I, Xiuhan Lin, of Room 1-406, West Main Building, Tsinghua University, 100084, Beijing, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

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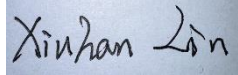
I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

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implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

A rectangular box containing a handwritten signature in black ink. The signature reads "Xinhao Lin" in a cursive, slightly slanted script.

Title: PhD Student

Date: May 31, 2023

Place: Beijing, China

2.D.1 Statement by Each Submitter

I, Xiaoyun Wang, of Room 306, Institute for Advanced Study, Tsinghua University, 100084, Beijing, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as HuFu, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

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- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: none.*

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implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Xiaoyun Wang

Title: Professor

Date: May 31, 2023

Place: Beijing, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Yang Yu, Room 1-404, West Main Building, Tsinghua University, 100084, Beijing, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Yang Yu.

Title: Doctor

Date: May 31, 2023

Place: Beijing, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Huiwen Jia, Room 609B, Computer Laboratory Building, Guangzhou University, 510006, Guangzhou, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Huiwen Jia

Title: Doctor

Date: May 31, 2023

Place: Guangzhou, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Leibo Li, Room 1901-1, Building 7, Zone 7, Hanyu Financial Business Center, No. 7000 Jing Shi Road, Jinan, Shandong Province, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Leibo Li

Title: CTO

Date: May 31, 2023

Place: Jinan, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Delong Ran, Room 405, Institute for Advanced Study, Tsinghua University, 100084, Beijing, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Delong Ran

Title: PhD Student

Date: May 31, 2023

Place: Beijing, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Zhiyuan Qiu, Room 1901-1, Building 7, Zone 7, Hanyu Financial Business Center, No. 7000 Jing Shi Road, Jinan, Shandong Province, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Zhiyuan Qiu

Title: Engineer

Date: May 31, 2023

Place: Jinan, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Shiduo Zhang, Room 405, Institute for Advanced Study, Tsinghua University, 100084, Beijing, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Shiduo Zhang

Title: PhD Student

Date: May 31, 2023

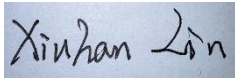
Place: Beijing, China

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Signed:

A rectangular box containing a handwritten signature in black ink that reads "Xiuhan Lin".

Title: PhD Student

Date: May 31, 2023

Place: Beijing, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Xiaoyun Wang, Room 306, Institute for Advanced Study, Tsinghua University, 100084, Beijing, China, am the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

A handwritten signature in black ink that reads "Xiaoyun Wang". The signature is written in a cursive, flowing style.

Title: Professor

Date: May 31, 2023

Place: Beijing, China