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PUBLICLY VERIFIABLE INNER PRODUCT EVALUATION

OVER OUTSOURCED DATA STREAMS UNDER MULTIPLE KEYS

ABSTRACT:

Uploading data streams to a resource-rich cloud server for inner product evaluation, an essential building block in many popular stream applications (e.g., statistical monitoring), is appealing to many companies and individuals. On the other hand, verifying the result of the remote computation plays a crucial role in addressing the issue of trust. Since the outsourced data collection likely comes from multiple data sources, it is desired for the system to be able to pinpoint the originator of errors by allotting each data source a unique secret key, which requires the inner product verification to be performed under any two parties' different keys. However, the present solutions either depend on a single key assumption or powerful yet practically inefficient fully homomorphic cryptosystems. In this paper, we focus on the more challenging multi-key scenario where data streams are uploaded by multiple data sources with distinct keys.

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EXISTINGSYSTEM

Streaming data generated by a variety of applications/systems, such as GPS, Internet traffic, asset tracking, wireless sensors, etc. Retaining a local copy of such exponentially-growing volume of data is becoming prohibitive for resource-constrained companies/ organizations, let alone offering efficient and reliable query services on it. Consider a stream-oriented service (e.g., market analysis, weather forecasting and traffic management), where multiple resourceconstrained sources continuously collect or generate data streams, and outsource them to a powerful external server, e.g. cloud, for desired critical computations and storage savings.

DISADVANTAGES

The outsourced computation is data sensitive, i.e., given forged data from a source, the final computation result will be erroneous.

The typical signature algorithm does not serve on purpose of verifiable multi-key computation. Indeed, most of the existing verifiable computation schemes.

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PROPOSED SYSTEM

Introduce a novel homomorphic verifiable tag technique, and design an efficient and publicly verifiable inner product computation scheme on the dynamic outsourced data streams under multiple keys. We also extend the inner product scheme to support matrix product. Compared with the existing works under the single-key setting, our scheme aims at the more challenging multi-key scenario, i.e., it allows multiple data sources with different secret keys to upload their endless data streams and delegate the corresponding computations to a third party server, while the traceability can still be provided on demand. Furthermore, any keyless client is able to publicly verify the validity of the returned computation result. Security analysis shows that our scheme is provable secure under the CDH assumption in the random oracle model.

ADVANTAGES

- Our scheme is efficient enough for practical use in terms of communication and computation overhead.
- Experimental results demonstrate that our protocol is practically efficient in terms of both communication and computation cost.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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