

CLAIMS

1. A method for data analyzing and processing, comprising:
 - establishing a new data analysis and processing project which includes:
 - acquiring a source project code for data analyzing, and acquiring a scientific
 - 5 computing extension database from a data packet of data calculation tool;
 - creating the new data analysis and processing project, and importing the source project
 - code for data analyzing into the new data analysis and processing project;
 - creating a functional node in the new data analysis and processing project;
 - calling the data packet of the data calculation tool, and integrating data in the data
 - 10 packet of data calculation tool into the new data analysis and processing project according
 - to a pre-set node developing template;
 - creating an association relationship between the scientific computing extension
 - database and the new data analysis and processing project at the functional node;
 - modifying a basic configuration of the new data analysis and processing project, and
 - 15 packing the functional node; and
 - storing the new data analysis and processing project; wherein
 - the method further comprises,
 - entering the new data analysis and processing project;

accessing the functional node in the new data analysis and processing project;
reading a target file and importing data from the target file;
generating a data calculation and processing script according to requirement
information; and

5 calling the data calculation and processing script, and analyzing and processing the
imported data at the functional node.

2. The method of claim 1, after the calling the data calculation and processing script,
and analyzing and processing the imported data at the functional node, further comprising:

receiving an operation request of generating a data diagram;
10 according to the operation request, calling a correlation function of a graphics
processing extension database in the scientific computing extension database to analyze
the imported data having been processed, and generating a corresponding data diagram file.

3. The method of claim 1 further comprising:

acquiring a nearest Hadoop cluster, and storing the imported data having been
15 processed into the nearest Hadoop cluster.

4. An apparatus for data analyzing and processing, comprising:

an establishing module configured to establish a new data analysis and processing
project; the establishing module including:

an acquiring unit configured to acquire a source project code for data analyzing and

a scientific computing extension database from a data packet of data calculation tool;

an importing unit configured to create the new data analysis and processing project,
and import the source project code for data analyzing into the new data analysis and
processing project;

5 a creating unit configured to create a functional node in the new data analysis and
processing project;

a calling unit configured to call the data packet of the data calculation tool, and
integrate data in the data packet of the data calculation tool into the new data analysis and
processing project according to a pre-set node developing template;

10 an association unit configured to create an association relationship between the
scientific computing extension database and the new data analysis and processing project
at the functional node;

a modifying unit configured to modify a basic configuration of the new data analysis
and processing project, and pack the functional node; and

15 a storage unit configured to store the new data analysis and processing project;
wherein the apparatus further comprises:

an entering module configured to enter the new data analysis and processing project;

an accessing module configured to access the functional node in the new data analysis
and processing project;

a reading module configured to read a target file and import data;

a script generating module configured to generate a data calculation and processing script according to requirement information; and

a calling module configured to call the data calculation and processing script, and

5 analyze and process the imported data at the functional node.

5. The apparatus of claim 4 further comprising:

a receiving module configured to receive an operation request of generating a data diagram; and

a diagram generating module configured to, according to the operation request, call a
10 correlation function of a graphics processing extension database in the scientific computing extension database to analyze the imported data having been processed, and generate a corresponding data diagram file.

6. The apparatus of claim 4, further comprising:

a storage module configured to acquire a nearest Hadoop cluster and store the
15 imported data having been processed into the nearest Hadoop cluster.

7. A computing device, comprising a memory and a processor, wherein computer executable instructions are stored in the memory, and when the computer executable instructions are executed by the processor, the processor is configured to perform:

establishing a new data analysis and processing project which includes:

acquiring a source project code for data analyzing, and acquiring a scientific computing extension database from a data packet of data calculation tool;

creating the new data analysis and processing project, and importing the source project code for data analyzing into the new data analysis and processing project;

5 creating a functional node in the new data analysis and processing project;

calling the data packet of the data calculation tool, and integrating data in the data packet of the data calculation tool into the new data analysis and processing project according to a pre-set node developing template;

10 creating an association relationship between the scientific computing extension database and the new data analysis and processing project at the functional node;

modifying a basic configuration of the new data analysis and processing project, and packing the functional node; and

storing the new data analysis and processing project; wherein

the processor is further configured to perform:

15 entering the new data analysis and processing project;

accessing the functional node in the new data analysis and processing project;

reading a target file and importing data;

generating a data calculation and processing script according to requirement information; and

calling the data calculation and processing script, and analyzing and processing the imported data at the functional node.

8. The computing device of claim 7, wherein when the computer executable instructions are executed by the processor, the processor is further configured to perform
5 following steps after the calling the data calculation and processing script, and analyzing and processing the imported data at the functional node:

receiving an operation request of generating a data diagram; and

according to the operation request, calling a correlation function of a graphics processing extension database in the scientific computing extension database to analyze
10 the imported data having been processed, and generating a corresponding data diagram file.

9. The computing device of claim 7, wherein when the computer executable instructions are executed by the processor, the processor is further configured to perform:

acquiring a nearest Hadoop cluster, and storing the imported data having been processed into the nearest Hadoop cluster.

15 10. One or more non-volatile computer readable storage medium containing computer executable instructions, wherein when the computer executable instructions are executed by one or more processors, the one or more processors are configured to perform:

establishing a new data analysis and processing project which includes:

acquiring a source project code for data analyzing, and acquiring a scientific

computing extension database from a data packet of data calculation tool;

creating a new data analysis and processing project, and importing the source project code for data analyzing into the new data analysis and processing project;

creating a functional node in the new data analysis and processing project;

5 calling the data packet of the data calculation tool, and integrating data in the data packet of the data calculation tool into the new data analysis and processing project according to a pre-set node developing template;

creating an association relationship between the scientific computing extension database and the new data analysis and processing project at the functional node;

10 modifying a basic configuration of the new data analysis and processing project, and packing the functional node; and

storing the new data analysis and processing project; wherein

the one or more processors are further configured to perform:

entering the new data analysis and processing project;

15 accessing the functional node in the new data analysis and processing project;

reading a target file and importing data;

generating a data calculation and processing script according to requirement information; and

calling the data calculation and processing script, and analyzing and processing the

imported data at the functional node.

11. The non-volatile computer readable storage medium of claim 10, wherein when the computer executable instructions are executed by the one or more processors, the one or more processors are configured to perform following steps after the calling the data
5 calculation and processing script, and analyzing and processing the imported data at the functional node:

receiving an operation request of generating a data diagram;

according to the operation request, calling a correlation function of a graphics processing extension database in the scientific computing extension database to analyze
10 the imported data having been processed, and generating a corresponding data diagram file.

12. The non-volatile computer readable storage medium of claim 10, wherein when the computer executable instructions are executed by the one or more processors, the one or more processors are configured to perform:

acquiring a nearest Hadoop cluster, and storing the imported data having been
15 processed into the nearest Hadoop cluster.