

CLAIMS

1. A method for code translation applied to a code server, comprising:

acquiring a to-be-translated analysis results set obtained by parsing a to-be-translated source code file, the to-be-translated analysis results set comprising a to-be-translated code segment and a corresponding segment positioning information;

calling a translator interface provided by a translator system, the translator system being deployed on a translation server, and obtaining a translated code segment through translating the to-be-translated code segment by the translator system;

performing replacement processing on the to-be-translated source code file according to the segment positioning information corresponding to the translated code segment, so as to generate a to-be-corrected source code file;

acquiring a target translation detail report for an input of the to-be-corrected source code file, the target translation detail report comprising a target correction item; and

correcting the to-be-corrected source code file according to the segment positioning information corresponding to the target correction item, so as to generate a corrected source code file;

wherein acquiring of the target translation detail report for the input of the to-be-corrected source code file comprises:

generating an initial translation detail report according to the to-be-translated code segment and the corresponding context code segment, the translated code segment and the segment positioning information; and

acquiring a corrected code segment inputted by a terminal based on a

to-be-corrected code segment and the corresponding segment positioning information by:

- acquiring a code jump instruction, the code jump instruction corresponding to the to-be-corrected code segment;

- acquiring a to-be-corrected code file to which the to-be-corrected code segment belongs based on the code jump instruction;

- displaying the to-be-corrected source code file by jumping according to the segment positioning information corresponding to the to-be-corrected code segment;

- detecting a code correction operation acting on the displayed to-be-corrected source code file; and

- extracting the obtained corrected code segment based on the code correction operation.

2. The method according to claim 1, wherein the acquiring of a to-be-translated analysis results set obtained by parsing a to-be-translated source code file comprises:

- acquiring the to-be-translated source code file;

- reading a source code directory in the to-be-translated source code file; the to-be-translated source code directory comprising a plurality of initial file names;

- traversing an initial code sub-file corresponding to each of the initial file names to screen a to-be-translated code sub-file, the to-be-translated code sub-file being matched with a preset language type, and the to-be-translated code sub-file comprising a translation code segment;

- looking up a parser matched with the preset language type; and

acquiring the segment positioning information of the to-be-translated code segment in the to-be-translated code sub-file by the parser, extracting the to-be-translated code segment based on the segment positioning information, and generating the to-be-translated analysis results set according to the to-be-translated code segment and the segment positioning information.

3. The method according to claim 2, wherein the traversing of an initial code sub-file corresponding to each of the initial file names to screen a to-be-translated code sub-file comprises:

acquiring regular expressions respectively corresponding to a plurality of preset language types;

traversing the initial code sub-file corresponding to each of the initial file names, and matching each initial code sub-file with the regular expression;

determining the preset language type matched with each initial code sub-file according to the matched regular expression; and

screening the initial code sub-file containing any one of the preset language types as the to-be-translated code sub-file.

4. The method according to claim 1, wherein the to-be-translated analysis results set further comprises a context code segment corresponding to the to-be-translated code segment, and the calling of a translator interface provided by a translator system comprises:

looking up a code processor matched with the to-be-translated code segment;

analyzing, by the code processor, the syntax of the to-be-translated code segment

according to the context code segment to identify a target language type and a translation policy of the to-be-translated code segment; and

calling, by the code processor, the translator interface provided by the translator system, the translator system being deployed on the translation server, the translator system translating the to-be-translated code segment into a translated code segment of a corresponding target language type based on the translation policy.

5. The method according to claim 4, wherein the looking up of a code processor matched with the to-be-translated code segment comprises:

identifying a programming language type of the to-be-translated code segment based on the regular expression;

looking up a code processor set corresponding to the programming language type;

matching the to-be-translated code segment with a matching condition corresponding to each code processor in the code processor set; and

serving the code processor corresponding to the matched matching condition as the code processor matched with the to-be-translated code segment.

6. The method according to claim 4, wherein the acquiring of a target translation detail report for an input of the to-be-corrected source code file comprises:

serving each of the to-be-corrected code segments, the corresponding corrected code segment and the context code segment as a target correction item; and

generating the target translation detail report based on the plurality of target correction items.

7. An apparatus for code translation comprising:

an acquiring module, configured to obtain a to-be-translated translation analysis result set by parsing a to-be-translated source code file, the to-be-translated analysis result set comprising a code segment to be translated and corresponding segment positioning information;

a translation module, configured to call a translator interface provided by a translator system, wherein the translator system is deployed on a translation server and translates the to-be-translated code segment through the translator system to obtain a translated code segment;

a replacement module, configured to perform replacement processing on the to-be-translated source code file according to the segment positioning information corresponding to the translated code segment to generate a to-be-translated source code file; and

a correction module, configured to obtain a target translation detail report for the to-be-corrected source code file input, the target translation detail report comprising a target correction item, correcting the to-be-corrected source code file according to the segment positioning information corresponding to the target correction item, and generating a corrected source code file;

wherein the correction module is further configured to generate an initial translation detail report according to the to-be-translated code segment and the corresponding context code segment, the translated code segment and the segment positioning information;

obtain a code jump instruction, the code jump instruction corresponding to a to-be-corrected code segment;

obtain a to-be-corrected code file to which the to-be-corrected code segment

belongs based on the code jump instruction;

display the source code file to be corrected according to the segment positioning information corresponding to the code segment to be corrected;

detect a code correction operation acting on the displayed source code file to be corrected; and

extract a corrected code fragment based on a code correction operation.

8. A computer device including a memory and one or more processors in which computer readable instructions are stored, when the computer readable instructions are executed by the one or more processors, causing the one or more processors to perform the following steps:

obtaining a to-be-translated analysis results set by parsing the to-be-translated source code file, the to-be-translated analysis results set comprising a to-be-translated code segment and corresponding segment positioning information;

invoking a translator interface provided by a translator system, the translator system being deployed on a translation server, and translating the to-be-translated code segment through the translator system to obtain a translated code segment;

performing replacement processing on the to-be-translated source code file according to the segment positioning information corresponding to the translated code segment to generate a to-be-corrected source code file;

obtaining a target translation detail report for the to-be-corrected source code file input, the target translation detail report comprising a target correction item; and

correcting the to-be-corrected source code file according to the segment positioning information corresponding to the target correction item, and generating a

corrected source code file; and

further perform the following steps:

generating an initial translation detail report according to the to-be-translated code segment and the corresponding context code segment, the translated code segment and the segment positioning information;

obtaining a code jump instruction, the code jump instruction corresponding to the to-be-corrected code segment;

obtaining a to-be-corrected code file to which the to-be-corrected code segment belongs based on the code jump instruction;

displaying the to-be-corrected source code file according to the segment positioning information corresponding to the to-be-corrected code segment;

detecting a code correction operation acting on the displayed to-be-corrected source code file; and

extracting a corrected code segment based on the code correction operation.

9. The computer device according to claim 8, wherein when the computer-readable instructions are executed by the one or more processors, the one or more processors further performing the following steps:

obtaining a to-be-translated source code file to be translated;

reading a source code directory in the to-be-translated source code file, the to-be-translated source code directory comprising a plurality of initial file names;

traversing an initial code sub-file corresponding to each of the initial file names to filter out a to-be-translated code sub-file, the to-be-translated subfile of the code

matching a preset language type, and the to-be-translated subfile of the code comprising a translation code segment;

searching for a parser that matches the preset language type; and

acquiring segment positioning information of a to-be-translated code segment in the to-be-translated code sub-file by the parser, extracting a to-be-translated code segment based on the segment positioning information, and extracting the to-be-translated code segment according to the to-be-translated code segment and the segment positioning information, generating a to-be-translated analysis results set.

10. The computer device according to claim 9, wherein when the computer-readable instructions are executed by the one or more processors, the one or more processors further perform the following steps:

obtaining regular expressions respectively corresponding to a plurality of preset language types;

traversing an initial code sub-file corresponding to each of the initial file names, and matching each initial code sub-file with the regular expression;

determining a preset language type matched by each initial code sub-file according to the matched regular expression; and

filtering out the initial code subfile containing any one of the default language types as the to-be-translated code subfile.

11. The computer device according to claim 8, wherein when the computer-readable instructions are executed by the one or more processors, the one or more processors further perform the following steps:

finding a code processor that matches the to-be-translated code segment;

analyzing, by the code processor, the syntax of the to-be-translated code segment according to the context code segment to identify a target language type and a translation policy of the to-be-translated code segment; and

invoking, by the code processor, a translator interface provided by a translator system, the translator system being deployed on a translation server, the translator system translates the to-be-translated code segment into a translated code segment of a corresponding target language type based on the translation policy.

12. The computer device according to claim 11, wherein when the computer-readable instructions are executed by the one or more processors, the one or more processors further perform the following steps:

identifying a programming language type of the to-be-translated code segment based on a regular expression;

searching for a set of code processors corresponding to the programming language type;

matching the to-be-translated code segment with a matching condition corresponding to each code processor in the code processor set; and

using a code processor corresponding to the matched matching condition as a code processor matching the to-be-translated code segment.

13. The computer device according to claim 11, wherein when the computer-readable instructions are executed by the one or more processors, causing the one or more processors to further perform the following steps:

obtaining a corrected code segment input through a terminal based on the initial translation detail report;

using each of the to-be-corrected code segments, the corresponding corrected code segment and the context code segment as a target correction item; and

generating a target translation detail report based on the plurality of target correction items.

14. One or more non-transitory computer-readable storage medium storing computer-readable instructions that, when executed by one or more processors, cause the one or more processors to perform the following steps:

obtaining a to-be-translated analysis results set by parsing the to-be-translated source code file, the to-be-translated analysis result set comprising a to-be-translated code segment and corresponding segment positioning information;

invoking a translator interface provided by a translator system, the translator system being deployed on a translation server, and translating the to-be-translated code segment through the translator system to obtain a translated code segment;

performing replacement processing on the to-be-translated source code file according to the segment positioning information corresponding to the translated code segment to generate a to-be-corrected source code file;

obtaining a target translation detail report for the to-be-corrected source code file input, the target translation detail report comprising a target correction item; and

correcting the to-be-corrected source code file according to the segment positioning information corresponding to the target correction item, and generating a

corrected source code file; and

further perform the following steps:

generating an initial translation detail report according to the to-be-translated code segment and the corresponding context code segment, the translated code segment and the segment positioning information;

obtaining a code jump instruction, the code jump instruction corresponding to the to-be-corrected code segment;

obtaining a to-be-corrected code file to which the to-be-corrected code segment belongs based on the code jump instruction;

displaying the to-be-corrected source code file according to the segment positioning information corresponding to the to-be-corrected code segment;

detecting a code correction operation acting on the displayed to-be-corrected source code file; and

extracting a corrected code segment based on the code correction operation.

15. The computer-readable storage medium according to claim 14, wherein the computer-readable instructions, when executed by one or more processors, cause the one or more processors to further perform the following steps:

obtaining a to-be-translated source code file;

reading a source code directory in the to-be-translated source code file, the to-be-translated source code directory comprising a plurality of initial file names;

traversing an initial code sub-file corresponding to each of the initial file names to filter out a to-be-translated code sub-file, the to-be-translated subfile of the code

matches a preset language type, and the to-be-translated subfile of the code comprising a translation code segment;

searching for a parser that matches the preset language type; and

acquiring segment positioning information of a to-be-translated code segment in the to-be-translated code sub-file by the parser, extracting a to-be-translated code segment based on the segment positioning information, and extracting the to-be-translated code segment according to the to-be-translated code segment and the segment positioning information, generate a to-be-translated analysis results set.

16. The computer-readable storage medium according to claim 15, when the computer-readable instructions are executed by one or more processors, cause the one or more processors to further perform the following steps: obtaining regular expressions respectively corresponding to a plurality of preset language types;

obtaining regular expressions respectively corresponding to a plurality of preset language types;

traversing an initial code sub-file corresponding to each of the initial file names, and matching each initial code sub-file with the regular expression;

determining a preset language type matched by each initial code sub-file according to the matched regular expression; and

filtering out the initial code subfile containing any one of the default language types as the to-be-translated code subfile.

17. The computer-readable storage medium according to claim 14, the computer-readable instructions, when executed by one or more processors, cause the

one or more processors to further perform the following steps

finding a code processor that matches the to-be-translated code segment;

analyzing, by the code processor, the syntax of the to-be-translated code segment according to the context code segment to identify a target language type and a translation policy of the to-be-translated code segment; and

invoking, by the code processor, a translator interface provided by a translator system, the translator system being deployed on a translation server, the translator system translates the to-be-translated code segment into a translated code segment of a corresponding target language type based on the translation policy.

18. The computer-readable storage medium according to claim 17, the computer-readable instructions, when executed by one or more processors, cause the one or more processors to further perform the following steps

identifying a programming language type of the to-be-translated code segment based on a regular expression;

searching for a set of code processors corresponding to the programming language type;

matching the to-be-translated code segment with a matching condition corresponding to each code processor in the code processor set; and

using a code processor corresponding to the matched matching condition as a code processor matching the to-be-translated code segment.