

CLAIMS

1. A method for resource determination, performed by a terminal, the method comprising:
determining a first resource index, wherein the first resource index is a target resource index of a physical uplink control channel (PUCCH) corresponding to N physical downlink control channel (PDCCH) candidates that have a linking relationship, and the N PDCCH candidates have one-to-one correspondence with N control resource sets (CORESETs), where N is an integer greater than or equal to 2.
2. The method of claim 1, wherein the linking relationship indicates that the N PDCCH candidates are configured for PDCCH repetition.
3. The method of claim 1, wherein the first resource index is determined based on configuration parameters of the N CORESETs.
4. The method of claim 3, wherein the first resource index is determined based on a configuration parameter of a first CORESET; and
the first CORESET is a CORESET with a maximum CORESET index among the N CORESETs, or the first CORESET is a CORESET with a minimum CORESET index among the N CORESETs.
5. The method of claim 3, wherein the first resource index is determined based on a configuration parameter of a first CORESET; and
the first CORESET is one or more CORESETs among the N CORESETs.
6. The method of claim 5, wherein the configuration parameter of the first CORESET comprises at least one of:
an index of a starting control channel element (CCE) of the first CORESET;
a number of CCEs in the first CORESET;
a CORESET index of the first CORESET; or
a CORESET pool index of the first CORESET.
7. The method of claim 3, wherein the first resource index is determined based on second resource indexes, wherein the second resource indexes are N candidate resource indexes determined based on a configuration parameter of each CORESET in the N CORESETs.

8. The method of claim 7, wherein the first resource index is determined based on PUCCH resource parameters corresponding to the second resource indexes.

9. The method of claim 8, wherein each of the PUCCH resource parameters corresponding to the second resource indexes comprises at least one of:

a resource index corresponding to a PUCCH resource, a frequency hopping mode corresponding to the PUCCH resource, a second hop physical resource block (PRB) corresponding to the PUCCH resource, a PUCCH format corresponding to the PUCCH resource, a start symbol position corresponding to the PUCCH resource, a number of symbols corresponding to the PUCCH resource, an end symbol position corresponding to the PUCCH resource, a PRB offset corresponding to the PUCCH resource, or an initial cyclic shift corresponding to the PUCCH resource.

10. The method of claim 9, wherein when each of the PUCCH resource parameters corresponding to the second resource indexes comprises the resource index corresponding to the PUCCH resource, the first resource index is a maximum resource index or a minimum resource index among the second resource indexes.

11. The method of claim 9, wherein when each of the PUCCH resource parameters corresponding to the second resource indexes comprises the PUCCH format corresponding to the PUCCH resource, the first resource index is determined by one or more of:

determining the first resource index based on an amount of feedback data supported by the PUCCH formats for the PUCCH resources corresponding to the second resource indexes; and

determining the first resource index based on an aggregation level of downlink control information carried in the N PDCCH candidates, and at least one of a number of symbols occupied by the PUCCH formats for the PUCCH resources corresponding to the second resource indexes or an amount of feedback data supported by the PUCCH formats for the PUCCH resources.

12. The method of claim 9, wherein when each of the PUCCH resource parameters corresponding to the second resource indexes comprises the start symbol position corresponding to the PUCCH resource, the first resource index is determined based on a

duration of receiving and processing at least one of downlink data scheduled by downlink control information carried in the N PDCCH candidates or downlink control information indicated by the N PDCCH candidates, and the start symbol position corresponding to the PUCCH resource.

13. The method of claim 9, wherein when each of the PUCCH resource parameters corresponding to the second resource indexes comprises the number of symbols corresponding to the PUCCH resource, the first resource index is determined based on a delay requirement of downlink data scheduled by at least one of downlink control information carried in the N PDCCH candidates or downlink control information indicated by the N PDCCH candidates, as well as at least one of the number of symbols or the start symbol position corresponding to the PUCCH resource.

14. The method of claim 9, wherein when each of the PUCCH resource parameters corresponding to the second resource indexes comprises the PRB offset corresponding to the PUCCH resource, the first resource index is a resource index of the PUCCH resource with a maximum PRB offset or a minimum PRB offset among the second resource indexes.

15. The method of claim 9, wherein when each of the PUCCH resource parameters corresponding to the second resource indexes comprises the initial cyclic shift corresponding to the PUCCH resource, the first resource index is a resource index of the PUCCH resource with a maximum initial cyclic shift or a minimum initial cyclic shift among the second resource indexes.

16. A method for resource determination, performed by a base station, the method comprising:

configuring for a terminal, N physical downlink control channel (PDCCH) candidates that have a linking relationship, wherein the linking relationship indicates that the base station configures the N PDCCH candidates for PDCCH repetition to the terminal, and the N PDCCH candidates have one-to-one correspondence with N control resource sets (CORESETs), where N is an integer greater than or equal to 2; and

sending the N PDCCH candidates to a terminal, so that the terminal determines a first resource index, wherein the first resource index is a target resource index of a physical uplink control channel (PUCCH) corresponding to the N PDCCH candidates.

17. The method of claim 16, wherein each of the N CORESETs comprises a configuration parameter.

18. The method of claim 17, wherein the configuration parameter of each CORESET comprises at least one of:

- an index of a starting control channel element (CCE) of the first CORESET;
- a number of CCEs in the first CORESET;
- a CORESET index of the first CORESET; or
- a CORESET pool index of the first CORESET.

19. A terminal, comprising:

- a processor, and
- a memory, storing instructions executable by the processor,

wherein the processor is configured to implement the method for resource determination according to any one of claims 1 to 15.

20. A non-transitory computer-readable storage medium having instructions stored thereon, wherein when the instructions are executed by a processor of a mobile terminal, the mobile terminal is caused to execute the method for resource determination according to any one of claims 1 to 15.