

WHAT IS CLAIMED IS:

1. A method for scheduling transport blocks, comprising:

determining (501) transmission interval parameters, wherein the transmission interval parameters are used to determine a mode of setting a transmission interval among transport blocks;

scheduling (502) the transport blocks on a physical downlink control channel (PDCCH) according to the transmission interval parameters, the transport blocks scheduled on the PDCCH comprising at least one of physical uplink shared channel (PUSCH) transport blocks and physical downlink shared channel (PDSCH) transport blocks;

wherein determining (501) the transmission interval parameters comprises: determining the transmission interval parameters when a preset condition is met; wherein the preset condition comprises adopting multi-transport-block scheduling, wherein the multi-transport-block scheduling refers to scheduling at least two different transport blocks on the PDCCH.

2. The method according to claim 1, wherein the transmission interval parameters comprise a transmission interval period and a transmission interval duration;

the transmission interval period and the transmission interval duration are both configurable values; or,

the transmission interval period is a configurable value, and the transmission interval duration is a fixed value; or,

the transmission interval period is a fixed value, and the transmission interval duration is a configurable value.

3. The method according to claim 2, wherein the transmission interval period is a configurable value, and determining the transmission interval parameters comprises:

in responding to adopting the continuous transmission mode, determining the transmission interval period according to a number of times of repeated transmissions of the transport blocks; or,

in responding to adopting an alternate transmission mode, determining the transmission interval period by an alternate transport unit, the alternate transport unit being a smallest transport unit comprising different transport blocks; or,

determining the transmission interval period according to the number of scheduled transport blocks; or,

determining the transmission interval period by an absolute time unit, the absolute time unit comprising at least one of a subframe and a time slot.

4. The method according to claim 2, wherein the transmission interval duration is a configurable value, and determining the transmission interval parameter comprises:

determining the transmission interval duration according to the number of times of repeated transmissions of the transport blocks; or,

determining the transmission interval duration according to the number of scheduled transport blocks; or,

determining the transmission interval duration by an absolute time unit, the absolute time unit comprising at least one of a subframe and a time slot.

5. The method according to any one of claims 1 to 4, further comprising:

configuring the transmission interval parameters for a terminal adopting a high-layer signaling, wherein the high-layer signaling comprises at least one of a radio resource control (RRC) signaling and a media access control element (MAC CE) signaling.

6. The method according to any one of claims 1 to 5, wherein scheduling (502) the transport blocks on the PDCCH according to the transmission interval parameters comprises:

in responding to adopting multi-transport-block scheduling, scheduling the transport blocks on the PDCCH according to the transmission interval parameters, wherein the multi-transport-block scheduling refer to scheduling at least two transport blocks on the PDCCH; or,

sending downlink control information (DCI) to the terminal through the PDCCH, the DCI comprising parameter usage information configured to indicate whether the transmission interval is preset in a current scheduling; or,

scheduling the transport blocks on the PDCCH according to the transmission interval parameters in responding to the number of the transport blocks being greater than a number threshold; or,

scheduling the transport blocks on the PDCCH according to the transmission interval parameters in responding to the number of repeated transmissions of the transport blocks

being greater than the threshold; or,

scheduling the transport blocks on the PDCCH according to the transmission interval parameters in responding to a total transmission duration being greater than a duration threshold, wherein the total transmission duration is determined according to the number of the transport blocks and the number of times of repeated transmissions of the transport blocks.

7. A method for scheduling transport blocks, further comprising:

receiving (503) transport blocks scheduled by the base station on a physical downlink control channel (PDCCH);

setting (504) a transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters, wherein the transmission interval parameters are configured to determine a setting mode of the transmission interval among the transport blocks, the transport blocks comprise at least one of physical uplink shared channel (PUSCH) transport blocks and physical downlink shared channel (PDSCH) transport blocks;

wherein the transmission interval parameters are determined when a preset condition is met, and the preset condition comprises adopting multi-transport-block scheduling, wherein the multi-transport-block scheduling refers to scheduling at least two different transport blocks on the PDCCH.

8. The method according to claim 7, wherein the transmission interval parameters comprise a transmission interval period and a transmission interval duration;

the transmission interval period and the transmission interval duration are both configurable values; or,

the transmission interval period is a configurable value, and the transmission interval duration is a fixed value; or,

the transmission interval period is a fixed value, and the transmission interval duration is a configurable value.

9. The method according to claim 8, wherein the transmission interval period is a configurable value;

in responding to adopting the continuous transmission mode, the transmission interval period is determined according to a number of times of repeated transmissions of

the transport blocks, after a current transport block is repeatedly transmitted for n times in the continuous transmission mode, and a next transport block is repeatedly transmitted, and n represents a total number of times of repeated transmissions of the transport blocks; or,

in responding to adopting an alternate transmission mode, the transmission interval period is determined by an alternate transport unit, wherein the alternate transport unit is a smallest transport unit comprising different transport blocks; or,

the transmission interval period is determined according to the number of scheduled transport blocks; or,

the transmission interval period is determined by an absolute time unit, wherein the absolute time unit comprises at least one of a subframe and a time slot.

10. The method according to claim 8, wherein the transmission interval duration is a configurable value;

the transmission interval duration is determined according to the number of times of repeated transmissions of the transport blocks; or,

the transmission interval duration is determined according to the number of scheduled transport blocks; or,

the transmission interval duration is determined by an absolute time unit, wherein the absolute time unit comprises at least one of a subframe and a time slot.

11. The method according to any one of claims 7 to 10, further comprising:

receiving the transmission interval parameters configured by adopting a high-layer signaling by a base station, wherein the high-layer signaling comprises at least one of a radio resource control (RRC) signaling and a media access control element (MAC CE) signaling.

12. The method according to any one of claims 7 to 11, wherein receiving (503) the transport blocks scheduled on the PDCCH by the base station comprises:

receiving downlink control information (DCI) sent by the base station through the PDCCH, wherein the DCI comprises parameter usage information configured to indicate whether the transmission interval is preset in a current scheduling; and

setting the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters comprises:

in responding to the parameter usage information indicating to configure the transmission interval, setting the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters.

13. The method according to any one of claims 7 to 12, wherein setting (504) the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters comprises:

in responding to adopting multi-transport-block scheduling, setting the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters, wherein the multi-transport-block scheduling refers to scheduling at least two transport blocks on the PDCCH; or,

in responding to the number of times of repeated transmissions of the transport blocks being greater than a threshold of times of repeated transmissions, setting the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters; or,

in responding to the number of the transport blocks being greater than a number threshold, setting the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters; or,

in responding to a total transmission duration being greater than a duration threshold, setting the transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters, wherein the total transmission duration is determined according to the number of the transport blocks and the number of times of repeated transmissions of the transport blocks.

14. An apparatus for scheduling transport blocks, comprising:

a determining module (801), configured to determine transmission interval parameters, wherein the transmission interval parameters are used to determine a mode of setting a transmission interval among transport blocks;

a scheduling module (802), configured to schedule the transport blocks on a physical downlink control channel (PDCCH) according to the transmission interval parameters, the transport blocks scheduled on the PDCCH comprising at least one of physical uplink shared channel (PUSCH) transport blocks and physical downlink shared channel (PDSCH) transport blocks;

wherein the apparatus is configured to determine the transmission interval parameters when a preset condition is met; wherein the preset condition comprises adopting multi-transport-block scheduling, wherein the multi-transport-block scheduling refers to scheduling at least two different transport blocks on the PDCCH.

15. An apparatus for scheduling transport blocks, further comprising:

a first receiving module, configured to receive transport blocks scheduled by the base station on a physical downlink control channel (PDCCH);

a setting module, configured to set a transmission interval among the transport blocks according to the scheduled transport blocks and the transmission interval parameters, wherein the transmission interval parameters are configured to determine a setting mode of the transmission interval among the transport blocks, the transport blocks comprise at least one of physical uplink shared channel (PUSCH) transport blocks and physical downlink shared channel (PDSCH) transport blocks;

wherein the transmission interval parameters are determined when a preset condition is met, and the preset condition comprises adopting multi-transport-block scheduling, wherein the multi-transport-block scheduling refers to scheduling at least two different transport blocks on the PDCCH.

16. A base station, comprising:

a processor;

a transceiver connected to the processor; and

a memory for storing processor executable instructions; wherein,

the processor is configured to load and execute the executable instructions to implement the method for scheduling transport blocks according to any one of claims 1 to 6.

17. A terminal, comprising:

a processor;

a transceiver connected to the processor; and

a memory for storing processor executable instructions; wherein,

the processor is configured to load and execute the executable instructions to implement the method for scheduling transport blocks according to any one of claims 7

to 13.

18. A computer-readable storage medium, wherein the storage medium stores at least one instruction, at least one program, code set or instruction set, the at least one instruction, the at least one program, and code set or instruction set is loaded and executed by the processor to implement the method for scheduling transport blocks according to any one of claims 1 to 6, or the method for scheduling transport blocks according to any one of claims 7 to 13.