WHAT IS CLAIMED IS:

1. A method for indicating transmission, for a base station, comprising:

determining to transmit one or more transmission blocks (TBs) in a first number of designated time units, where the first number is an integer greater than 1;

generating a first downlink control information (DCI) signaling for indicating that the one or more TBs are transmitted in the designated time units; and

transmitting the first DCI signaling to a terminal, so that the terminal transmits the one or more TBs in the designated time units based on the first DCI signaling;

wherein generating the first DCI signaling comprises:

determining beam indication information corresponding to each designated time unit; and

adding the beam indication information into the first DCI signaling,

(1) wherein a number of pieces of beam indication information to be allocated is a third number, and the third number is equal to the first number, and determining the beam indication information corresponding to the each designated time unit comprises: allocating the pieces of beam indication information to the designated time units, respectively, different pieces of beam indication information being allocated to different designated time units, or

(2) wherein a number of pieces of beam indication information to be allocated is less than the first number, and determining the beam indication information corresponding to the each designated time unit comprises: allocating one piece of beam indication information to a time unit in the designated time units whose time interval with the first DCI signaling is greater than or equal to a preset threshold, wherein different time unit groups are allocated with different pieces of beam indication information, and the time unit group comprises consecutive time units and/or nonconsecutive time units.

2. The method as claimed in claim 1, wherein the designated time unit is a designated mini-slot; and

generating the first DCI signaling comprises:

determining a position of start symbol and a number of symbols of each designated mini-slot; and

adding the position of start symbol and the number of symbols of each designated mini-slot into the first DCI signaling.

3. The method as claimed in claim 2, wherein a number of slots occupied by the designated mini-slots is a second number, the second number is less than or equal to the first number, the second number is an integer greater than 0, and all symbols of one designated mini-slot are within one slot and cannot be allocated to different slots.

4. The method as claimed in claim 2, wherein the designated mini-slots comprise adjacent mini-slots and/or non-adjacent mini-slots.

5. The method as claimed in claim 1, wherein the designated time unit is a designated slot; and

generating the first DCI signaling comprises:

determining a position of a designated start symbol and a position of a designated end symbol, of each designated slot; and

adding the position of the designated start symbol and the position of the designated end symbol into the first DCI signaling.

6. A method for indicating transmission, for a terminal, comprising:

receiving a first downlink control information (DCI) signaling from a base station, where the first DCI signaling is configured to indicate that one or more transmission blocks (TBs) are transmitted in a first number of designated time units, and the first number is an integer greater than 1; and

transmitting the TBs in the designated time units based on the first DCI signaling;

wherein the first DCI signaling comprises beam indication information corresponding to the designated time units,

transmitting the TBs in the designated time units based on the first DCI signaling comprises:

determining the beam indication information corresponding to the designated time units based on the first DCI signaling; and

transmitting the TBs based on the beam indication information;

(1) wherein a number of pieces of beam indication information to be allocated in the first DCI signaling is a third number, and the third number is equal to the first number, and determining the beam indication information corresponding to the designated time units based on the first DCI signaling comprises: allocating the pieces of beam indication information to the designated time units, respectively, based on the first DCI signaling, different pieces of beam indication information being allocated to different designated time units; or

(2) wherein a number of pieces of beam indication information to be allocated in the first DCI signaling is less than the first number, and determining the beam indication information corresponding to the designated time units based on the first DCI signaling comprises: allocating, based on the first DCI signaling, one piece of beam indication information to a time unit in the designated time units whose time interval with the first DCI signaling is greater than or equal to a preset threshold, wherein different time unit groups are allocated with different pieces of beam indication information, and the time unit group comprises consecutive time units and/or nonconsecutive time units.

7. The method as claimed in claim 6, wherein the designated time unit is a designated mini-slot; and the first DCI signaling comprises a position of start symbol and a number of symbols, of each designated mini-slot; and

transmitting the TBs in the designated time units based on the first DCI signaling comprises:

determining the position of start symbol and the number of symbols, of the each designated mini-slot, based on the first DCI signaling; and

transmitting the TBs based on the position of start symbol and the number of

symbols, of the each designated mini-slot.

8. The method as claimed in claim 6, wherein the designated time unit is a designated slot; and the first DCI signaling comprises a position of a designated start symbol and a position of a designated end symbol, of each designated slot; and

transmitting the TBs in the designated time units based on the first DCI signaling comprises:

determining the position of the designated start symbol and the position of the designated end symbol, of the each designated slot, based on the first DCI signaling; and

transmitting the TBs based on the position of the designated start symbol and the position of the designated end symbol.

9. The method as claimed in claim 6, wherein the first DCI signaling comprises beam indication information and antenna panel identifiers, corresponding to the designated time units; and

transmitting the TBs in the designated time units based on the first DCI signaling comprises:

determining the beam indication information and antenna panel identifiers, corresponding to the designated time units, based on the first DCI signaling; and

transmitting the TBs based on the beam indication information and antenna panel identifiers.

10. The method as claimed in claim 6 or 9, wherein the beam indication information comprises a transmission configuration indication (TCI) state for indicating beam information used when the terminal receives data; and/or spatial relation info for indicating beam information used when the terminal transmits data.

11. An apparatus for indicating transmission, for a base station, comprising:

a determining module configured to determine to transmit one or more transmission

blocks (TBs) in a first number of designated time units, where the first number is an integer greater than 1;

a generating module configured to generate a first downlink control information (DCI) signaling for indicating that the one or more TBs are transmitted in the designated time units; and

a transmitting module configured to transmit the first DCI signaling to a terminal, so that the terminal transmits the one or more TBs in the designated time units based on the first DCI signaling;

wherein generating the first DCI signaling comprises:

determining beam indication information corresponding to each designated time unit; and

adding the beam indication information into the first DCI signaling,

(1) wherein a number of pieces of beam indication information to be allocated is a third number, and the third number is equal to the first number, and determining the beam indication information corresponding to the each designated time unit comprises: allocating the pieces of beam indication information to the designated time units, respectively, different pieces of beam indication information being allocated to different designated time units, or

(2) wherein a number of pieces of beam indication information to be allocated is less than the first number, and determining the beam indication information corresponding to the each designated time unit comprises: allocating one piece of beam indication information to a time unit in the designated time units whose time interval with the first DCI signaling is greater than or equal to a preset threshold, wherein different time unit groups are allocated with different pieces of beam indication information, and the time unit group comprises consecutive time units and/or nonconsecutive time units.

12. An apparatus for indicating transmission, for a terminal, comprising:

a receiving module configured to receive a first downlink control information (DCI) signaling from a base station, where the first DCI signaling is configured to indicate that one or more transmission blocks (TBs) are transmitted in a first number of designated time units,

and the first number is an integer greater than 1; and

a transmitting module configured to transmit the TBs in the designated time units based on the first DCI signaling;

wherein the first DCI signaling comprises beam indication information corresponding to the designated time units,

transmitting the TBs in the designated time units based on the first DCI signaling comprises:

determining the beam indication information corresponding to the designated time units based on the first DCI signaling; and

transmitting the TBs based on the beam indication information;

(1) wherein a number of pieces of beam indication information to be allocated in the first DCI signaling is a third number, and the third number is equal to the first number, and determining the beam indication information corresponding to the designated time units based on the first DCI signaling comprises: allocating the pieces of beam indication information to the designated time units, respectively, based on the first DCI signaling, different pieces of beam indication information being allocated to different designated time units; or

(2) wherein a number of pieces of beam indication information to be allocated in the first DCI signaling is less than the first number, and determining the beam indication information corresponding to the designated time units based on the first DCI signaling comprises: allocating, based on the first DCI signaling, one piece of beam indication information to a time unit in the designated time units whose time interval with the first DCI signaling is greater than or equal to a preset threshold, wherein different time unit groups are allocated with different pieces of beam indication information, and the time unit group comprises consecutive time units and/or nonconsecutive time units.

13. A device for indicating transmission, for a base station, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

determine to transmit one or more transmission blocks (TBs) in a first number of designated time units, where the first number is an integer greater than 1;

generate a first downlink control information (DCI) signaling for indicating that the one or more TBs are transmitted in the designated time units; and

transmit the first DCI signaling to a terminal, so that the terminal transmits the one or more TBs in the designated time units based on the first DCI signaling;

wherein generating the first DCI signaling comprises:

determining beam indication information corresponding to each designated time unit; and

adding the beam indication information into the first DCI signaling,

(1) wherein a number of pieces of beam indication information to be allocated is a third number, and the third number is equal to the first number, and determining the beam indication information corresponding to the each designated time unit comprises: allocating the pieces of beam indication information to the designated time units, respectively, different pieces of beam indication information being allocated to different designated time units, or

(2) wherein a number of pieces of beam indication information to be allocated is less than the first number, and determining the beam indication information corresponding to the each designated time unit comprises: allocating one piece of beam indication information to a time unit in the designated time units whose time interval with the first DCI signaling is greater than or equal to a preset threshold, wherein different time unit groups are allocated with different pieces of beam indication information, and the time unit group comprises consecutive time units and/or nonconsecutive time units.

14. A device for indicating transmission, for a terminal, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

receive a first downlink control information (DCI) signaling from a base station, where

the first DCI signaling is configured to indicate that one or more transmission blocks (TBs) are transmitted in a first number of designated time units, and the first number is an integer greater than 1; and

transmit the TBs in the designated time units based on the first DCI signaling;

wherein the first DCI signaling comprises beam indication information corresponding to the designated time units,

transmitting the TBs in the designated time units based on the first DCI signaling comprises:

determining the beam indication information corresponding to the designated time units based on the first DCI signaling; and

transmitting the TBs based on the beam indication information;

(1) wherein a number of pieces of beam indication information to be allocated in the first DCI signaling is a third number, and the third number is equal to the first number, and determining the beam indication information corresponding to the designated time units based on the first DCI signaling comprises: allocating the pieces of beam indication information to the designated time units, respectively, based on the first DCI signaling, different pieces of beam indication information being allocated to different designated time units; or

(2) wherein a number of pieces of beam indication information to be allocated in the first DCI signaling is less than the first number, and determining the beam indication information corresponding to the designated time units based on the first DCI signaling comprises: allocating, based on the first DCI signaling, one piece of beam indication information to a time unit in the designated time units whose time interval with the first DCI signaling is greater than or equal to a preset threshold, wherein different time unit groups are allocated with different pieces of beam indication information, and the time unit group comprises consecutive time units and/or nonconsecutive time units.