1. A user equipment (UE), comprising:

a receiver configured to receive a first physical downlink control channel (PDCCH), the first PDCCH ending at a first symbol; and

a transmitter configured to transmit a first physical uplink shared channel (PUSCH) and a second PUSCH, the first PDCCH scheduling the first PUSCH, and the second PUSCH starting at a second symbol, wherein the second PUSCH is a PUSCH of a configured grant, the first PUSCH and the second PUSCH are on a same serving cell, and the first PUSCH and the second PUSCH overlap in a time domain,

wherein:

whether an end of the first symbol can be less than N symbols earlier than a start of the second symbol is based on whether the first PUSCH and the second PUSCH are associated with different coresetPoolIndex values, and

N depends on a UE processing capability.

2. The UE according to claim 1, wherein in response to the first PUSCH and the second PUSCH being associated with different coresetPoolIndex values, the end of the first symbol can be less than N symbols earlier than the start of the second symbol.

3. The UE according to claim 1, wherein in response to the first PUSCH and the second PUSCH not being associated with different coresetPoolIndex values, the end of the first symbol cannot be less than N symbols earlier than the start of the second symbol.

4. The UE according to claim 1, wherein N is a number of symbols of PUSCH preparation time.

5. The UE according to claim 1, wherein the N is based on a smaller one of a subcarrier interval corresponding to the second PUSCH and a subcarrier interval corresponding to the first PDCCH.

6. The UE according to claim 1, wherein the UE is configured with a higher layer parameter PDCCH-Config of an active bandwidth part (BWP) for one serving cell, and the

higher layer parameter PDCCH-Config comprises two different coresetPoolIndex values in ControlResourceSet.

7. The UE according to claim 1, wherein the coresetPoolIndex value with which the first PUSCH is associated is configurable, and the coresetPoolIndex value with which the second PUSCH is associated is configurable.

8. The UE according to claim 1, wherein N is one of 5, 5.5 or 11, or N is one of 10, 12, 23, 36, 144 or 288.

9. A base station, comprising:

a transmitter configured to transmit a first physical downlink control channel (PDCCH), the first PDCCH ending at a first symbol; and

a receiver configured to receive a first physical uplink shared channel (PUSCH) and a second PUSCH, the first PDCCH scheduling the first PUSCH, and the second PUSCH starting at a second symbol, wherein the second PUSCH is a PUSCH of a configured grant, the first PUSCH and the second PUSCH are on a same serving cell, and the first PUSCH and the second PUSCH overlap in a time domain,

wherein:

whether an end of the first symbol can be less than N symbols earlier than a start of the second symbol is based on whether the first PUSCH and the second PUSCH are associated with different coresetPoolIndex values, and

N depends on a UE processing capability.

10. A method, comprising:

receiving a first physical downlink control channel (PDCCH), the first PDCCH ending at a first symbol; and

transmitting a first physical uplink shared channel (PUSCH) and a second PUSCH, the first PDCCH scheduling the first PUSCH, and the second PUSCH starting at a second symbol, wherein the second PUSCH is a PUSCH of a configured grant, the first PUSCH and the second PUSCH are on a same serving cell, and the first PUSCH and the second PUSCH overlap in a time domain,

wherein:

whether an end of the first symbol can be less than N symbols earlier than a start of the second symbol is based on whether the first PUSCH and the second PUSCH are associated with different coresetPoolIndex values, and

N depends on a UE processing capability.

11. The method according to claim 10, wherein in response to the first PUSCH and the second PUSCH being associated with different coresetPoolIndex values, the end of the first symbol can be less than N symbols earlier than the start of the second symbol.

12. The method according to claim 10, wherein in response to the first PUSCH and the second PUSCH not being associated with different coresetPoolIndex values, the end of the first symbol cannot be less than N symbols earlier than the start of the second symbol.

13. The method according to claim 10, wherein N is based on a smaller one of a subcarrier interval corresponding to the second PUSCH and a subcarrier interval corresponding to the first PDCCH.

14. The method according to claim 10, wherein a user equipment (UE) is configured with a higher layer parameter PDCCH-Config of an active bandwidth part (BWP) for one serving cell, and the higher layer parameter PDCCH-Config comprises two different coresetPoolIndex values in ControlResourceSet.

15. The method according to claim 10, wherein N is one of 5, 5.5 or 11, or N is one of 10, 12, 23, 36, 144 or 288.