CLAIMS

1. A method for wireless communications by a user equipment (UE), comprising:

identifying a mapping of synchronization signal block (SSB) time resources to Type0-physical downlink control channel (PDCCH) common search space control resource set (CORESET) time resources;

receiving an indication of SSB time resources;

determining locations of Type0-PDCCH common search space CORESET time resources based on the mapping, the indication, a subcarrier spacing of the SSB, a subcarrier spacing of the Type0-PDCCH common search space CORESET, and a time duration of the Type0-PDCCH common search space CORESET, wherein the locations of Type0-PDCCH common search space CORESET time resources correspond to downlink time resources that the Type0-PDCCH common search space CORESET time resources are multiplexed into; and

receiving Type0-PDCCH in a Type0-PDCCH common search space CORESET.

2. The method of claim 1, wherein determining locations of Type0-PDCCH common search space CORESET time resources is further based on frequency resources over which the Type0-PDCCH common search space CORESET is transmitted.

3. The method of claim 1, wherein the downlink time resources contain one or more SSB time resources only.

4. The method of claim 1, wherein the mapping comprises a one-to-one mapping between the SSB time resources and the Type0-PDCCH common search space CORESET time resources.

5. The method of claim 1, wherein the mapping comprises a many-to-one mapping between the SSB time resources and the Type0-PDCCH common search space CORESET time resources.

6. An apparatus, comprising:

a non-transitory memory comprising executable instructions; and

a processor coupled to the memory and configured to execute the instructions to cause the

apparatus to:

identify a mapping of synchronization signal block (SSB) time resources to Type0-physical downlink control channel (PDCCH) common search space control resource set (CORESET) time resources;

receive an indication of SSB time resources;

determine locations of Type0-PDCCH common search space CORESET time resources based on the mapping, the indication, a subcarrier spacing of the SSB, a subcarrier spacing of the Type0-PDCCH common search space CORESET, and a time duration of the Type0-PDCCH common search space CORESET, wherein the locations of Type0-PDCCH common search space CORESET time resources correspond to downlink time resources that the Type0-PDCCH common search space CORESET time resources are multiplexed into; and

receive Type0-PDCCH in a Type0-PDCCH common search space CORESET.

7. The apparatus of claim 6, wherein determining locations of Type0-PDCCH common search space CORESET time resources is further based on frequency resources over which the Type0-PDCCH common search space CORESET is transmitted.

8. The apparatus of claim 6, wherein the downlink time resources contain one or more SSB time resources only.

9. The apparatus of claim 6, wherein the mapping comprises a one-to-one mapping between the SSB time resources and the Type0-PDCCH common search space CORESET time resources.

10. The apparatus of claim 6, wherein the mapping comprises a many-to-one mapping between the SSB time resources and the Type0-PDCCH common search space CORESET time resources.

11. An apparatus, comprising:

means for identifying a mapping of synchronization signal block (SSB) time resources to Type0-physical downlink control channel (PDCCH) common search space control resource set

(CORESET) time resources;

means for receiving an indication of SSB time resources;

means for determining locations of Type0-PDCCH common search space CORESET time resources based on the mapping, the indication, a subcarrier spacing of the SSB, a subcarrier spacing of the Type0-PDCCH common search space CORESET, and a time duration of the Type0-PDCCH common search space CORESET, wherein the locations of Type0-PDCCH common search space CORESET time resources correspond to downlink time resources that the Type0-PDCCH common search space CORESET time resources are multiplexed into; and

means for receiving Type0-PDCCH in a Type0-PDCCH common search space CORESET.

12. The apparatus of claim 11, wherein determining locations of Type0-PDCCH common search space CORESET time resources is further based on frequency resources which the Type0-PDCCH common search space CORESET is transmitted.

13. A non-transitory computer readable medium having instructions stored thereon that are executable to:

identify a mapping of synchronization signal block (SSB) time resources to Type0-physical downlink control channel (PDCCH) common search space control resource set (CORESET) time resources;

receive an indication of SSB time resources;

determine locations of Type0-PDCCH common search space CORESET time resources based on the mapping, the indication, a subcarrier spacing of the SSB, a subcarrier spacing of the Type0-PDCCH common search space CORESET, and a time duration of the Type0-PDCCH common search space CORESET, wherein the locations of Type0-PDCCH common search space CORESET time resources correspond to downlink time resources that the Type0-PDCCH common search space CORESET time resources are multiplexed into; and

receive Type0-PDCCH in a Type0-PDCCH common search space CORESET.

14. The non-transitory computer readable medium of claim 13, wherein determining

locations of Type0-PDCCH common search space CORESET time resources is further based on frequency resources which the Type0-PDCCH common search space CORESET is transmitted.

15. A method for wireless communications by a user equipment (UE), comprising:

identifying a mapping of synchronization signal block (SSB) time resources to Type0-physical downlink control channel (PDCCH) common search space control resource set (CORESET) time resources;

receiving an indication of SSB time resources;

determining time locations of Type0-PDCCH common search space CORESET time resources in a physical downlink shared channel (PDSCH) based on the mapping, the indication, a subcarrier spacing of the SSB, a subcarrier spacing of the Type0-PDCCH common search space CORESET, and a time duration of the Type0-PDCCH common search space CORESET, wherein the time locations correspond to downlink time resources that the Type0-PDCCH common search space CORESET time resources are multiplexed into;

determining time locations of Type0a-physical downlink control common search space CORESET in the PDSCH based on the time locations of the Type0-PDCCH common search space CORESET; and

receiving the Type0a-PDCCH common search space CORESET.