What is claimed is:

1. A portable electronic device comprising:

an antenna;

a charge unit configured to be charged by a current induced electromagnetically in the antenna;

a memory configured to store processing execution information for discontinuously executing a plurality of processing; and

a first processor configured to operate by a current from the charge unit, sense a residual capacity, a voltage, or a current of the charge unit, and discontinuously execute a plurality of processing by providing an interval based on the processing execution information,

wherein the processing execution information includes at least one of a threshold, command information to be a target of discontinuous processing, and progress information indicating progress of each processing, and the processing execution information includes a time interval of a plurality of processing determined by the residual capacity of the charge unit and a current value or a voltage value obtained by a non-contact power supply, and

the threshold relates to the residual capacity, the voltage, or the current of the charge unit.

2. The portable electronic device according to claim 1, wherein the first processor is configured to discontinuously execute a plurality of processing in accordance with a plurality of commands.

3. The portable electronic device according to claim 1, wherein the first processor is configured to divide one processing into a plurality of processing sets, and discontinuously execute the plurality of divided processing sets.

4. The portable electronic device according to claim 1, comprising a second processor configured to operate by a current from the charge unit, wherein

the first processor is configured to discontinuously execute a plurality of processing in accordance with a command from the second processor.

5. The portable electronic device according to claim 1, wherein

the plurality of processing includes first processing and second processing, and

the first processor is configured to execute the second processing after executing the first processing

based on a timing at which a residual capacity of the charge unit exceeds the threshold.

6. The portable electronic device according to claim 1, wherein the first processor is configured to record progress information indicating progress of a plurality of processing in the memory.

7. The portable electronic device according to claim 1, wherein the first processor is configured to discontinuously execute a plurality of image processing.

8. The portable electronic device according to claim 7, comprising a fingerprint sensor, wherein

the first processor is configured to discontinuously execute a plurality of image processing based on an image from the fingerprint sensor.

9. An IC card comprising:

an antenna;

a charge unit configured to be charged by a current induced electromagnetically in the antenna;

a memory configured to store processing execution information for discontinuously executing a plurality of processing; and

a first processor configured to operate by a current from the charge unit, sense a residual capacity, a voltage, or a current of the charge unit, and discontinuously execute a plurality of processing by providing an interval based on the processing execution information,

wherein the processing execution information includes at least one of a threshold, command information to be a target of discontinuous processing, and progress information indicating progress of each processing, and the processing execution information includes a time interval of a plurality of processing determined by the residual capacity of the charge unit and a current value or a voltage value obtained by a non-contact power supply, and

the threshold relates to the residual capacity, the voltage, or the current of the charge unit.