What is claimed is:

1. A portable electronic device comprising:

an antenna;

a first oscillator configured to output a first clock signal of a first frequency, and output a second clock signal of a second frequency that is higher than the first frequency as requested;

a first processor configured to operate by a current induced electromagnetically in the antenna, operate based on the first clock signal when not during an execution period of first processing corresponding to a reception command received by the antenna, request the second clock signal for executing the first processing, execute the first processing based on the second clock signal of the first oscillator that receives the request, and instruct to execute second processing corresponding to the reception command received by the antenna;

a second oscillator configured to output a third clock signal of a third frequency, and output a fourth clock signal of a fourth frequency that is higher than the third frequency as requested; and

a second processor configured to operate by a current induced electromagnetically in the antenna, operate based on the third clock signal when not during an execution period of the second processing, request the fourth clock signal for executing the second processing based on an instruction to execute the second processing from the first processor, and execute the second processing based on the fourth clock signal of the second oscillator that receives the request,

wherein the first processor receives a result of the second processing from the second processor, and executes

third processing.

2. The portable electronic device according to claim 1, wherein the first processor is configured to output to the second processor an instruction for requesting the fourth clock signal for executing the second processing.

3. The portable electronic device according to claim 1, wherein the first processor is configured to request the second clock signal to be switched to the first clock signal after the first processing.

4. The portable electronic device according to claim 1, wherein the first processor is configured to output to the second processor an instruction for requesting the fourth clock signal to be switched to the third clock signal after the second processing.

5. The portable electronic device according to claim 1 comprising:

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

the first and second processors operate by the current from the charge unit, and

in a case where a residual capacity of the charge unit is higher than a capacity threshold, the first processor is configured to request the second clock signal for executing the first processing.

6. The portable electronic device according to claim 5, wherein in a case where a residual capacity of the charge unit is higher than a capacity threshold, the first processor is configured to output to the second processor

an instruction for requesting the fourth clock signal for executing the second processing.

7. The portable electronic device according to claim 1, wherein the second processor is configured to execute the second processing corresponding to image processing based on the fourth clock signal.

8. The portable electronic device according to claim 1 comprising:

a fingerprint sensor, wherein

the second processor is configured to execute the second processing for processing an image from the fingerprint sensor based on the fourth clock signal.

9. An IC card comprising:

an antenna;

a first oscillator configured to output a first clock signal of a first frequency, and output a second clock signal of a second frequency that is higher than the first frequency as requested;

a first processor configured to operate by a current induced electromagnetically in the antenna, operate based on the first clock signal when not during an execution period of first processing corresponding to a reception command received by the antenna, request the second clock signal for executing the first processing, execute the first processing based on the second clock signal of the first oscillator that receives the request, and instruct to execute second processing corresponding to the reception command received by the antenna;

a second oscillator configured to output a third clock signal of a third frequency, and output a fourth clock

signal of a fourth frequency that is higher than the third frequency as requested; and

a second processor configured to operate by a current induced electromagnetically in the antenna, operate based on the third clock signal when not during an execution period of the second processing, request the fourth clock signal for executing the second processing based on an instruction to execute the second processing from the first processor, and execute the second processing based on the fourth clock signal of the second oscillator that receives the request,

wherein the first processor receives a result of the second processing from the second processor, and executes third processing.