```
24  _POWER_SUSPEND = const(0x02)
25
26
27  class BNO055:
28      """
29      Driver for the BNO055 9DOF IMU sensor.
30
31      Example::
32
33          import bno055
34          from machine import I2C, Pin
35
36          i2c = I2C(-1, Pin(5), Pin(4), timeout=1000)
37          s = bno055.BNO055(i2c)
38          print(s.temperature())
39          print(s.euler())
40      """
41
42      def __init__(self, i2c, address=0x28):
43          self.i2c = i2c
44          self.address = address
45          self.init()
46
47      def _registers(self, register, struct, value=None, scale=1):
48          if value is None:
49              size = ustruct.calcsize(struct)
50              data = self.i2c.readfrom_mem(self.address, register, size)
51              value = ustruct.unpack(struct, data)
52              if scale != 1:
53                  value = tuple(v * scale for v in value)
54              return value
55          if scale != 1:
56              value = tuple(v / scale for v in value)
57          data = ustruct.pack(struct, *value)
58          self.i2c.writeto_mem(self.address, register, data)
59
60      def _register(self, value=None, register=0x00, struct='B'):
61          if value is None:
62              return self._registers(register, struct=struct)[0]
63          self._registers(register, struct=struct, value=(value,))
64
65      _chip_id = partial(_register, register=0x00, value=None)
66      _power_mode = partial(_register, register=0x3e)
67      _system_trigger = partial(_register, register=0x3f)
68      _page_id = partial(_register, register=0x07)
69      operation_mode = partial(_register, register=0x3d)
70      temperature = partial(_register, register=0x34, value=None)
71      accelerometer = partial(_registers, register=0x08, struct='<hhh',
```