|  |  |  |
| --- | --- | --- |
| DECIMAL | BINARY | HEXADECIMAL |
| 52 | 0b00110100 | 0x34 |
| 37 | 0b00100101 | 0x25 |
| -37 | 0b11111111110110111 | 0xFFDB |
| -13642 | 0b1100111010110110 | 0xCEB6 |
| -19340 | 0b1101101000110100 | 0xDA34 |
| -74 | 0b10110110 | 0xB6 |
| 17363 | 0b0100101111010101 | 0x4BD5 |
| -33 | 0b11100000 | 0xC0 |
| -2 | 0b1111111101111110 | 0xFF7E |
| 3924 | 0b0000111101010100 | 0x0F54 |
| 4325 | 0b0001000011100101 | 0x1OD5 |
| 32152 | 0b0011111011001100 | 0x3ECC |
| -130 | 0b1101000101011000 | 0xD158 |
| 2109 | 0b0000100000111101 | 0x083D |
| -785 | 0b110011101111 | 0xCEF |
| -2134 | 100001010110 | 0x856 |
| 644980 | 0b01001110101110111010 | 0x4EBBA |
| -36003 | 0b11110111001101011101 | 0xF735D |
| -202325 | 0b11001110100110101010 | 0xCE9AA |
| 64 | 0b01000000 | 0x40 |

Primary vs. Secondary

Primary

- faster than secondary memory

-costlier than secondary memory

-interacts with the microprocessor

-composed of memory being currently used

-temporary

-integral memory

Secondary

-always non-volatile

-can store huge amounts of info

-known as backup memory

-permanent memory

Cache memory is extremely fast memory that is built into the CPU. Cache memory improves the computers overall speed. It does not need to use the motherboard for data transfer. They reduce the load on the database and are reliable. But, cache memory can run into synching issues, requires maintenance, and has some scalability issues.