Digital System Design with High-Level Synthesis in FPGA

Data Type – Bit Precision-Assignment: Quiz Solution

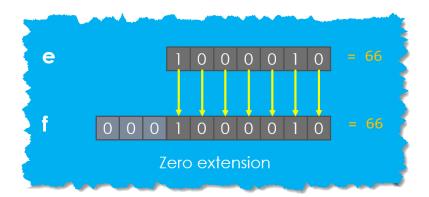
www.highlevel-synthesis.com

This file is a resource of the Udemy course: Digital System Design with High-Level Synthesis for FPGA: Combinational Circuits https://www.udemy.com/course/hls-combinational-circuits/?referralCode=8D449A491B9F4582DDEF

```
ap_uint<7> e = 0x42;
ap_uint<10> f;
f = e;
std::cout << " e = " << e << std::endl;
std::cout << " f = " << f << std::endl;</pre>
```

The output of this code is

```
e = 66
f = 66
```



Digital System Design with High-Level Synthesis in FPGA

Data Type – Bit Precision-Assignment: Quiz Solution

www.highlevel-synthesis.com

```
ap_uint<20> n = 0x562a;
ap_uint<9> k;
k = n;
std::cout << " n = " << n << std::endl;
std::cout << " k = " << k << std::endl;</pre>
```

The output of this code is

```
n = 22058
k = 42
```

