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Post Lab Questions:

1. 126 I/O pins
2. 200Mhz
3. The XEM 6002 is inferior compared to the XEM7310. XEM7310 has more LUTs, higher max clock speed, more I/O pins, higher transfer speed (USB 3.0 on XEM7310 and USB2.0 on XEM6002), and more total memory is available on XEM7310.
4. So it can hold the value up to 16,777,215 that we use to divide the 200MHz clock into slower speed.
5. If it was only 8 bits long then highest value is 255. $200\text{Mhz}/256$ is 781250Hz which is too fast to see LED's blink.
6. Used 30 (1%) LUTs, 33 (1%) Flipflops, 5% of IO pins and 3% of BUFG.