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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Comparison Inputs from 1-Bit Comparators** | | | | | | | | | | | | **4-Bit Comparator Outputs** | | |
| **A3<B3** | **A3=B3** | **A3>B3** | **A2<B2** | **A2=B2** | **A2>B2** | **A1<B1** | **A1=B1** | **A1>B1** | **A0<B0** | **A0=B0** | **A0>B0** | **A<B** | **A=B** | **A>B** |
| X | X | 1 | X | X | X | X | X | X | X | X | X | 0 | 0 | 1 |
| 1 | X | X | X | X | X | X | X | X | X | X | X | 1 | 0 | 0 |
| X | 1 | X | X | X | 1 | X | X | X | X | X | X | 0 | 0 | 1 |
| X | 1 | X | 1 | X | X | X | X | X | X | X | X | 1 | 0 | 0 |
| X | 1 | X | X | 1 | X | X | X | 1 | X | X | X | 0 | 0 | 1 |
| X | 1 | X | X | 1 | X | 1 | X | X | X | X | X | 1 | 0 | 0 |
| X | 1 | X | X | 1 | X | X | 1 | X | X | X | 1 | 0 | 0 | 1 |
| X | 1 | X | X | 1 | X | X | 1 | X | 1 | X | X | 1 | 0 | 0 |
| X | 1 | X | X | 1 | X | X | 1 | X | X | 1 | X | 0 | 1 | 0 |