

| JVM | | Java 6u14 | | | J9 | | |
|---------|-----------|-----------|-----------|-------------|--------|-----------|-------------|
| Type | Data Size | Header | Alignment | Total bytes | Header | Alignment | Total bytes |
| Boolean | 1 | 8 | 7 | 16 | 12 | 3 | 16 |
| Integer | 4 | 8 | 4 | 16 | 12 | 0 | 16 |
| Float | 4 | 8 | 4 | 16 | 12 | 0 | 16 |
| Long | 8 | 8 | 0 | 16 | 12 | 4 | 24 |
| Double | 8 | 8 | 0 | 16 | 12 | 4 | 24 |

| JVM | | Sun Java 6 (u14) | | | IBM Java 6 (J9 SR4) | | |
|-----------|-----------|------------------|-----------|-------------|---------------------|-----------|-------------|
| Type | Data Size | Header | Alignment | Total bytes | Header | Alignment | Total bytes |
| Boolean | 1 | 8 | 7 | 16 | 12 | 3 | 16 |
| Byte | 1 | 8 | 7 | 16 | 12 | 3 | 16 |
| Character | 2 | 8 | 6 | 16 | 12 | 1 | 16 |
| Short | 2 | 8 | 6 | 16 | 12 | 1 | 16 |
| Integer | 4 | 8 | 4 | 16 | 12 | 0 | 16 |
| Float | 4 | 8 | 4 | 16 | 12 | 0 | 16 |
| Long | 8 | 8 | 0 | 16 | 12 | 4 | 24 |
| Double | 8 | 8 | 0 | 16 | 12 | 4 | 24 |