29. The computer program of claim 28 wherein differentiating the target value further includes constructing a set of good candidates from the set of active candidates.

30. The computer program of claim 29 wherein constructing the set of good candidates from the set of active candidates includes:

calculating one or more characteristics for each of the one or more armatures; and

representing the set of good candidates using the one or more characteristics for each of the one or more armatures.

31. The computer program of claim 30 wherein calculating one or more characteristics for each of the one or more armatures includes determining the senior most bit and a number of on bits for each of the one or more armatures.

32. The computer program of claim 29 wherein differentiating the target value further includes constructing a set of exact matches from the set of good candidates.

33. The computer program of claim 32 wherein constructing a set of exact matches includes:

calculating a main difference pair for the target value; and

characterizing the set of exact matches by the main difference pair.

34. The computer program of claim 33 wherein differentiating the target value further includes determining the ordinal position of the target value within the set of exact matches.

35. The computer program of claim 34 wherein differentiating code segment creates a differentiation descriptor including:

a senior most bit of the target;

a number of on bits of the target;

a senior most bit of each of the armatures;

a number of on bits of each of the armatures;

the main difference pair; and