

```
FUNCTION FC 10 : VOID
TITLE =
VERSION : 0.1
```

```
VAR_INPUT
```

```
  start_address : INT ;
  DB_Nr1 : INT ;
  DB_Nr2 : INT ;
  Number_DBW : INT ;
```

```
END_VAR
```

```
VAR_OUTPUT
```

```
  result : BOOL ;
```

```
END_VAR
```

```
VAR_TEMP
```

```
  adr : DWORD ;
  DB_1 : WORD ;
  DB_2 : WORD ;
  Loop : WORD ;
```

```
END_VAR
```

```
BEGIN
```

```
NETWORK
```

```
TITLE =
```

```

      L      #start_address;
      SLW    3; // Pointer adaptation
      T      #adr;
      L      #DB_Nr1; // DB1 load
      T      #DB_1;
      L      #DB_Nr2; // DB2 load
      T      #DB_2;
      L      #Number_DBW; // Number of DB words to be compared
JMP1: T      #Loop;
      AUF    DB [#DB_1];
      L      DBW [#adr];
      AUF    DB [#DB_2];
      L      DBW [#adr];
      <>I    ;
      SPB    JMP2;
      L      #adr;
      L      16; // add 2
      +D     ;
      T      #adr;

      CLR    ; // set result = 0
      =      #result;

      L      #Loop;
      LOOP   JMP1;
      BEA    ;

JMP2: NOP    0;
      SET    ;
      =      #result;
```

```
END_FUNCTION
```