# Microcode Payload

Get more details, please references to SDM 9.11

## Payload Table

| **Section** | **Type** | **Size** |
| --- | --- | --- |
| Header | CPU\_MICROCODE\_HEADER | 48 bytes |
| Binary | Microcode Binary | 2000 bytes or  indicated by DataSize |
| Extended  Table Header | CPU\_MICROCODE\_EXTENDED\_TABLE\_HEADER | 20 bytes |
| Extended Table | CPU\_MICROCODE\_EXTENDED\_TABLE |  |

## CheckSum

One CheckSum for Header + Binary

One CheckSum for Extended Table Header + Extended Table

Both CheckSum must be equals to zero, otherwise it's an invalid data

## CPU\_MICROCODE\_HEADER

HeaderVersion: Should be 1 for valid data, otherwise walk to next 1KB offset.

DataSize: Size of the binary part, If the value is 0, the size of binary is 2000 bytes.

TotalSize: Total size of Header, Binary, Extended Table Header and Extended Table.

## Check Flow

Please reference to Microcode.c in UefiCpuPkg