

Client Silicon Package

v0.2.0.0

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Chapter 1

1 - Introduction

Purpose

The purpose of this document is to describe the external architecture and interfaces provided in the Client Silicon Package.

[2 - Packages Revision](#)

[3 - Client Silicon Package Override \(CSPO\)](#)

Chapter 2

2 - Packages Revision

v1.4.1.0 (BP1410_RP01)

Package(s)	GIT / SVN link(s)
BaseTools, CryptoPkg, FatBinPkg, FatPkg, IntelFrameworkModulePkg, IntelFrameworkPkg, IntelFsp2Pkg, IntelFsp2WrapperPkg, IntelSiliconPkg, MdeModulePkg, MdePkg, NetworkPkg, PcAtChipsetPkg, PerformancePkg, SecurityPkg, ShellBinPkg, ShellPkg, SourceLevelDebugPkg, UefiCpuPkg	GIT: 324a4c9d7d512f3bf78fe782803d3a8a09c69f73 https://github.com/tianocore/edk2/tree/UDK2017
BaseToolsWin32	GIT: 0e088c19ab31fccd1d2f55d9e4fe0314b57c0097 https://github.com/tianocore/edk2-BaseTools-win32.git

v1.4.1.0 (BP1410_RC03_RP01)

Package(s)	GIT / SVN link(s)
BaseTools, CryptoPkg, FatBinPkg, FatPkg, IntelFrameworkModulePkg, IntelFrameworkPkg, IntelFsp2Pkg, IntelFsp2WrapperPkg, IntelSiliconPkg, MdeModulePkg, MdePkg, NetworkPkg, PcAtChipsetPkg, PerformancePkg, SecurityPkg, ShellBinPkg, ShellPkg, SourceLevelDebugPkg, UefiCpuPkg	GIT: adeef88496e74b1a7014ea4008f28d82f43d9683 https://github.com/tianocore/edk2/tree/UDK2017
BaseToolsWin32	GIT: 7b52b1a9bf853b5c498ea61d0a4f17083f543be4 https://github.com/tianocore/edk2-BaseTools-win32.git

v1.4.1.0 (BP1410_RC02_RP01)

Package(s)	GIT / SVN link(s)
BaseTools, CryptoPkg, FatBinPkg, FatPkg, IntelFrameworkModulePkg, IntelFrameworkPkg, IntelFsp2Pkg, IntelFsp2WrapperPkg, IntelSiliconPkg, MdeModulePkg, MdePkg, NetworkPkg, PcAtChipsetPkg, PerformancePkg, SecurityPkg, ShellBinPkg, ShellPkg, SourceLevelDebugPkg, UefiCpuPkg	GIT: 86e796a46f3f6bf252482f0b31f669b03c7feaf https://github.com/tianocore/edk2/tree/UDK2017
BaseToolsWin32	GIT: 86ee43a0e874f382081488dc5777cdc4fe641443 https://github.com/tianocore/edk2-BaseTools-win32.git

Chapter 3

3 - Client Silicon Package Override (CSPO)

Client Silicon Package Override CSPO-xxxx tags lists the overrides of the Intel Green H to add / enhance new features or resolve issues to unblock the enabling.

The Active CSPO table lists every issue which is currently resolved with an override. It is a catalog of all such existing overrides.

The Retired CSPO table lists issues which previously required such overrides. It is purely historical as these overrides have all been deleted (are no longer needed).

Active CSPOs in ClientSiliconPkg/Override

Tag	Client HSD	Core HSD	Status / Planned EOL	Description
CSPO-xxxx				
CSPO-0002	22058464		BP1410 RC4	Apply MtrrLib patch from SSG to fix a system hang observed while enabling CPU TraceHub Mode

Retired CSPOs in ClientSiliconPkg/Override

Tag	Client HSD	Core HSD	Actual EOL	Description
CSPO-0001	1504011433			"Enable GCC Link Time Optimization (LTO)" to reduce the GCC build size
CSPO-0002	22058464		BP1410	Apply MtrrLib patch from SSG to fix a system hang observed while enabling CPU TraceHub Mode

Chapter 4

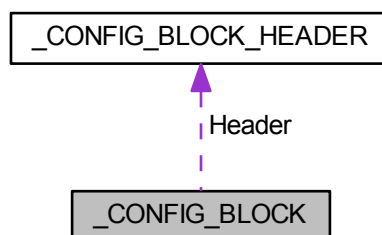
Class Documentation

4.1 `_CONFIG_BLOCK` Struct Reference

Config Block.

```
#include <ConfigBlock.h>
```

Collaboration diagram for `_CONFIG_BLOCK`:



Public Attributes

- [CONFIG_BLOCK_HEADER Header](#)
Offset 0-27 Header of config block.

4.1.1 Detailed Description

Config Block.

Definition at line 38 of file `ConfigBlock.h`.

The documentation for this struct was generated from the following file:

- [ConfigBlock.h](#)

4.2 _CONFIG_BLOCK_HEADER Struct Reference

Config Block Header.

```
#include <ConfigBlock.h>
```

Public Attributes

- EFI_HOB_GUID_TYPE [GuidHob](#)
Offset 0-23 GUID extension HOB header.
- UINT8 [Revision](#)
Offset 24 Revision of this config block.
- UINT8 [Attributes](#)
Offset 25 The main revision for config block.
- UINT8 [Reserved](#) [2]
Offset 26-27 Reserved for future use.

4.2.1 Detailed Description

Config Block Header.

Definition at line 28 of file ConfigBlock.h.

The documentation for this struct was generated from the following file:

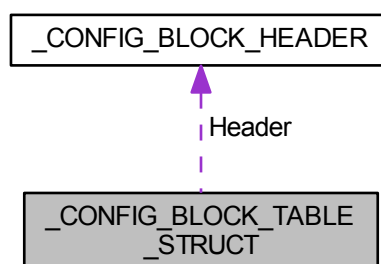
- [ConfigBlock.h](#)

4.3 _CONFIG_BLOCK_TABLE_STRUCT Struct Reference

Config Block Table Header.

```
#include <ConfigBlock.h>
```

Collaboration diagram for _CONFIG_BLOCK_TABLE_STRUCT:



Public Attributes

- [CONFIG_BLOCK_HEADER](#) Header
Offset 0-27 GUID number for main entry of config block.
- [UINT8 Rsvd0](#) [2]
Offset 28-29 Reserved for future use.
- [UINT16 NumberOfBlocks](#)
Offset 30-31 Number of config blocks (N)
- [UINT32 AvailableSize](#)
Offset 32-35 Current config block table size.

4.3.1 Detailed Description

Config Block Table Header.

Definition at line 48 of file ConfigBlock.h.

The documentation for this struct was generated from the following file:

- [ConfigBlock.h](#)

4.4 FIRMWARE_VERSION Struct Reference

Firmware Version Structure.

```
#include <FirmwareVersionInfoHob.h>
```

4.4.1 Detailed Description

Firmware Version Structure.

Definition at line 26 of file FirmwareVersionInfoHob.h.

The documentation for this struct was generated from the following file:

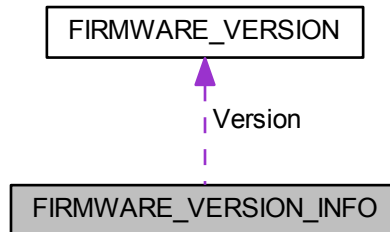
- [FirmwareVersionInfoHob.h](#)

4.5 FIRMWARE_VERSION_INFO Struct Reference

Firmware Version Information Structure.

```
#include <FirmwareVersionInfoHob.h>
```

Collaboration diagram for FIRMWARE_VERSION_INFO:



Public Attributes

- [UINT8 ComponentNameIndex](#)
Offset 0 Index of Component Name.
- [UINT8 VersionStringIndex](#)
Offset 1 Index of Version String.
- [FIRMWARE_VERSION Version](#)
Offset 2-6 Firmware version.

4.5.1 Detailed Description

Firmware Version Information Structure.

Definition at line 36 of file [FirmwareVersionInfoHob.h](#).

The documentation for this struct was generated from the following file:

- [FirmwareVersionInfoHob.h](#)

4.6 FIRMWARE_VERSION_INFO_HOB Struct Reference

Firmware Version Information HOB Structure.

```
#include <FirmwareVersionInfoHob.h>
```

Public Attributes

- `EFI_HOB_GUID_TYPE` [Header](#)
Offset 0-23 The header of FVI HOB.
- `UINT8` [Count](#)
Offset 24 Number of FVI elements included.

4.6.1 Detailed Description

Firmware Version Information HOB Structure.

Definition at line 45 of file `FirmwareVersionInfoHob.h`.

4.6.2 Member Data Documentation

4.6.2.1 Count

```
UINT8 FIRMWARE_VERSION_INFO_HOB::Count
```

Offset 24 Number of FVI elements included.

Definition at line 47 of file `FirmwareVersionInfoHob.h`.

The documentation for this struct was generated from the following file:

- [FirmwareVersionInfoHob.h](#)

4.7 SMBIOS_CACHE_INFO Struct Reference

SMBIOS Cache Info HOB Structure.

```
#include <SmbiosCacheInfoHob.h>
```

Public Attributes

- UINT16 [NumberOfCacheLevels](#)
Based on Number of Cache Types L1/L2/L3.
- UINT8 [SocketDesignationStrIndex](#)
String Index in the string Buffer. Example "L1-CACHE".
- UINT16 [CacheConfiguration](#)
Format defined in SMBIOS Spec v3.0 Section 7.8 Table 36.
- UINT16 [MaxCacheSize](#)
Format defined in SMBIOS Spec v3.0 Section 7.8.1.
- UINT16 [InstalledSize](#)
Format defined in SMBIOS Spec v3.0 Section 7.8.1.
- UINT16 [SupportedSramType](#)
Format defined in SMBIOS Spec v3.0 Section 7.8.2.
- UINT16 [CurrentSramType](#)
Format defined in SMBIOS Spec v3.0 Section 7.8.2.
- UINT8 [CacheSpeed](#)
Cache Speed in nanoseconds. 0 if speed is unknown.
- UINT8 [ErrorCorrectionType](#)
ENUM Format defined in SMBIOS Spec v3.0 Section 7.8.3.
- UINT8 [SystemCacheType](#)
ENUM Format defined in SMBIOS Spec v3.0 Section 7.8.4.
- UINT8 [Associativity](#)
ENUM Format defined in SMBIOS Spec v3.0 Section 7.8.5.

4.7.1 Detailed Description

SMBIOS Cache Info HOB Structure.

Definition at line 29 of file SmbiosCacheInfoHob.h.

The documentation for this struct was generated from the following file:

- [SmbiosCacheInfoHob.h](#)

4.8 SMBIOS_PROCESSOR_INFO Struct Reference

SMBIOS Processor Info HOB Structure.

```
#include <SmbiosProcessorInfoHob.h>
```

Public Attributes

- [UINT8 ProcessorType](#)
ENUM defined in SMBIOS Spec v3.0 Section 7.5.1.
- [UINT16 ProcessorFamily](#)
This info is used for both ProcessorFamily and ProcessorFamily2 fields See ENUM defined in SMBIOS Spec v3.0 Section 7.5.2.
- [UINT8 ProcessorManufacturerStrIndex](#)
Index of the String in the String Buffer.
- [UINT64 ProcessorId](#)
ENUM defined in SMBIOS Spec v3.0 Section 7.5.3.
- [UINT8 ProcessorVersionStrIndex](#)
Index of the String in the String Buffer.
- [UINT8 Voltage](#)
Format defined in SMBIOS Spec v3.0 Section 7.5.4.
- [UINT16 ExternalClockInMHz](#)
External Clock Frequency. Set to 0 if unknown.
- [UINT16 CurrentSpeedInMHz](#)
Snapshot of current processor speed during boot.
- [UINT8 Status](#)
Format defined in the SMBIOS Spec v3.0 Table 21.
- [UINT8 ProcessorUpgrade](#)
ENUM defined in SMBIOS Spec v3.0 Section 7.5.5.
- [UINT16 CoreCount](#)
This info is used for both CoreCount & CoreCount2 fields See detailed description in SMBIOS Spec v3.0 Section 7.5.6.
- [UINT16 EnabledCoreCount](#)
This info is used for both CoreEnabled & CoreEnabled2 fields See detailed description in SMBIOS Spec v3.0 Section 7.5.7.
- [UINT16 ThreadCount](#)
This info is used for both ThreadCount & ThreadCount2 fields See detailed description in SMBIOS Spec v3.0 Section 7.5.8.
- [UINT16 ProcessorCharacteristics](#)
Format defined in SMBIOS Spec v3.0 Section 7.5.9.

4.8.1 Detailed Description

SMBIOS Processor Info HOB Structure.

Definition at line 28 of file SmbiosProcessorInfoHob.h.

The documentation for this struct was generated from the following file:

- [SmbiosProcessorInfoHob.h](#)

Chapter 5

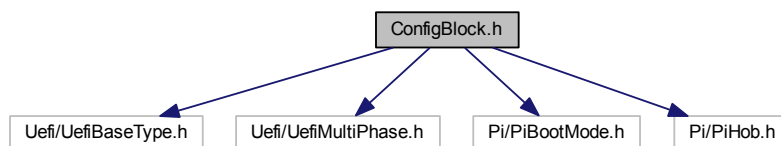
File Documentation

5.1 ConfigBlock.h File Reference

Header file for Config Block Lib implementation.

```
#include <Uefi/UefiBaseType.h>
#include <Uefi/UefiMultiPhase.h>
#include <Pi/PiBootMode.h>
#include <Pi/PiHob.h>
```

Include dependency graph for ConfigBlock.h:



Classes

- struct [_CONFIG_BLOCK_HEADER](#)
Config Block Header.
- struct [_CONFIG_BLOCK](#)
Config Block.
- struct [_CONFIG_BLOCK_TABLE_STRUCT](#)
Config Block Table Header.

Typedefs

- typedef struct [_CONFIG_BLOCK_HEADER](#) [CONFIG_BLOCK_HEADER](#)
Config Block Header.
- typedef struct [_CONFIG_BLOCK](#) [CONFIG_BLOCK](#)
Config Block.
- typedef struct [_CONFIG_BLOCK_TABLE_STRUCT](#) [CONFIG_BLOCK_TABLE_HEADER](#)
Config Block Table Header.

5.1.1 Detailed Description

Header file for Config Block Lib implementation.

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5.2 ConfigBlockLib.h File Reference

Header file for Config Block Lib implementation.

Functions

- EFI_STATUS [CreateConfigBlockTable](#) (IN UINT16 TotalSize, OUT VOID **ConfigBlockTableAddress)
Create config block table.
- EFI_STATUS [AddConfigBlock](#) (IN VOID *ConfigBlockTableAddress, OUT VOID **ConfigBlockAddress)
Add config block into config block table structure.
- EFI_STATUS [GetConfigBlock](#) (IN VOID *ConfigBlockTableAddress, IN EFI_GUID *ConfigBlockGuid, OUT VOID **ConfigBlockAddress)
Retrieve a specific Config Block data by GUID.

5.2.1 Detailed Description

Header file for Config Block Lib implementation.

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5.2.2 Function Documentation

5.2.2.1 AddConfigBlock()

```
EFI_STATUS AddConfigBlock (
    IN VOID * ConfigBlockTableAddress,
    OUT VOID ** ConfigBlockAddress )
```

Add config block into config block table structure.

Parameters

in	<i>ConfigBlockTableAddress</i>	- A pointer to the beginning of Config Block Table Address
out	<i>ConfigBlockAddress</i>	- On return, points to a pointer to the beginning of Config Block Address

Return values

<i>EFI_OUT_OF_RESOURCES</i>	- Config Block Table is full and cannot add new Config Block or Config Block Offset Table is full and cannot add new Config Block.
<i>EFI_SUCCESS</i>	- Successfully added Config Block

5.2.2.2 CreateConfigBlockTable()

```
EFI_STATUS CreateConfigBlockTable (
    IN UINT16 TotalSize,
    OUT VOID ** ConfigBlockTableAddress )
```

Create config block table.

Parameters

in	<i>TotalSize</i>	- Max size to be allocated for the Config Block Table
out	<i>ConfigBlockTableAddress</i>	- On return, points to a pointer to the beginning of Config Block Table Address

Return values

<i>EFI_INVALID_PARAMETER</i>	- Invalid Parameter
<i>EFI_OUT_OF_RESOURCES</i>	- Out of resources
<i>EFI_SUCCESS</i>	- Successfully created Config Block Table at ConfigBlockTableAddress

5.2.2.3 GetConfigBlock()

```
EFI_STATUS GetConfigBlock (
    IN VOID * ConfigBlockTableAddress,
    IN EFI_GUID * ConfigBlockGuid,
    OUT VOID ** ConfigBlockAddress )
```

Retrieve a specific Config Block data by GUID.

Parameters

in	<i>ConfigBlockTableAddress</i>	- A pointer to the beginning of Config Block Table Address
in	<i>ConfigBlockGuid</i>	- A pointer to the GUID uses to search specific Config Block
out	<i>ConfigBlockAddress</i>	- On return, points to a pointer to the beginning of Config Block Address

Return values

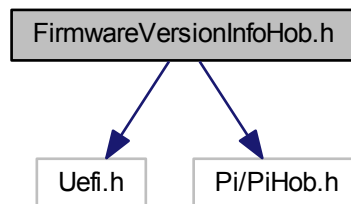
<code>EFI_NOT_FOUND</code>	- Could not find the Config Block
<code>EFI_SUCCESS</code>	- Config Block found and return

5.3 FirmwareVersionInfoHob.h File Reference

Header file for Firmware Version Information.

```
#include <Uefi.h>
#include <Pi/PiHob.h>
```

Include dependency graph for FirmwareVersionInfoHob.h:



Classes

- struct [FIRMWARE_VERSION](#)
Firmware Version Structure.
- struct [FIRMWARE_VERSION_INFO](#)
Firmware Version Information Structure.
- struct [FIRMWARE_VERSION_INFO_HOB](#)
Firmware Version Information HOB Structure.

5.3.1 Detailed Description

Header file for Firmware Version Information.

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5.4 HstiFeatureBit.h File Reference

This file contains various definitions for IHV HSTI implementation including error string definitions.

5.4.1 Detailed Description

This file contains various definitions for IHV HSTI implementation including error string definitions.

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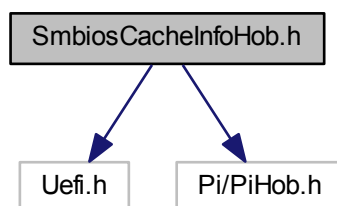
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Specification

5.5 SmbiosCacheInfoHob.h File Reference

Header file for SMBIOS Cache Info HOB.

```
#include <Uefi.h>
#include <Pi/PiHob.h>
Include dependency graph for SmbiosCacheInfoHob.h:
```



Classes

- struct [SMBIOS_CACHE_INFO](#)
SMBIOS Cache Info HOB Structure.

5.5.1 Detailed Description

Header file for SMBIOS Cache Info HOB.

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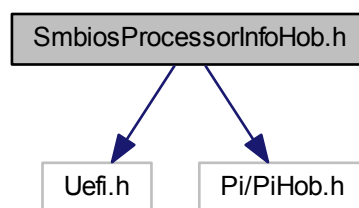
System Management BIOS (SMBIOS) Reference Specification v3.0.0 dated 2015-Feb-12 (DSP0134) http://www.dmtf.org/sites/default/files/standards/documents/DSP0134_3.0.0.pdf

5.6 SmbiosProcessorInfoHob.h File Reference

Header file for SMBIOS Processor Info HOB.

```
#include <Uefi.h>
#include <Pi/PiHob.h>
```

Include dependency graph for SmbiosProcessorInfoHob.h:



Classes

- struct [SMBIOS_PROCESSOR_INFO](#)
SMBIOS Processor Info HOB Structure.

5.6.1 Detailed Description

Header file for SMBIOS Processor Info HOB.

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System Management BIOS (SMBIOS) Reference Specification v3.0.0 dated 2015-Feb-12 (DSP0134) http://www.dmtf.org/sites/default/files/standards/documents/DSP0134_3.0.0.pdf

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