



# CEDAR ISLAND COOPER LAKE BKC RELEASE WW31 '20

Intel Corporation

Data Center Platform Application Engineering

July 2020

Reference Number: VIP Kit #136647

Revision Number: 1.0

**Intel Confidential**

# Legal Disclaimer

**Notice:** This document contains information on products in the design phase of development. The information here is subject to change without notice. Do not finalize a design with this information.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Learn more at Intel.com, or from the OEM or retailer..

No computer system can be absolutely secure. Intel does not assume any liability for lost or stolen data or systems or any damages resulting from such losses.

You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

The products described may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

This document contains information on products, services and/or processes in development. All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

Intel® Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. For more information, see <http://www.intel.com/technology/turboboost>

Warning: Altering PC clock or memory frequency and/or voltage may (i) reduce system stability and use life of the system, memory and processor; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional heat or other damage; and (v) affect system data integrity. Intel assumes no responsibility that the memory, included if used with altered clock frequencies and/or voltages, will be fit for any particular purpose. Check with memory manufacturer for warranty and additional details.

Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase. For more complete information about performance and benchmark results, visit <http://www.intel.com/performance>.

Results have been estimated or simulated using internal Intel analysis or architecture simulation or modeling, and provided to you for informational purposes. Any differences in your system hardware, software or configuration may affect your actual performance.

Intel does not control or audit third-party benchmark data or the web sites referenced in this document. You should visit the referenced web site and confirm whether referenced data are accurate.

Intel® AMT should be used by a knowledgeable IT administrator and requires enabled systems, software, activation, and connection to a corporate network. Intel AMT functionality on mobile systems may be limited in some situations. Your results will depend on your specific implementation. Learn more by visiting [Intel® Active Management Technology](#).

Intel is a sponsor and member of the Benchmark XPRT Development Community, and was the major developer of the XPRT family of benchmarks. Principled Technologies is the publisher of the XPRT family of benchmarks. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases.

Copies of documents which have an order number and are referenced in this document may be obtained by calling 1-800-548-4725 or by visiting [www.intel.com/design/literature.htm](http://www.intel.com/design/literature.htm).

Intel and the Intel logo are trademarks of Intel Corporation in the U. S. and/or other countries.

\*Other names and brands may be claimed as the property of others.

Copyright © 2019, Intel Corporation. All Rights Reserved.

# Revision History

Document Number	Revision Number	Description	Date
VIP Kit #136647	1.0	<ul style="list-style-type: none"><li>Initial release of the document.</li></ul>	July/2020

# Cedar Island CPX – BKC Release

Intel announces the release of the Cedar Island Lake Best Known Configuration (BKC) package. This release was tested on the Cooper City CRB running Windows Server, Red Hat Enterprise Linux Server and SUSE operating systems on the Cooper Lake processor.

The BKC consists of an update package and associated report, published on a regular basis, for the Cooper City reference platform. The BKC package includes UEFI Firmware, Management Engine Firmware (SPS), and onboard device drivers. BKC testing is designed to verify the interoperability of the various firmware and driver components which have already undergone extensive individual validation.

By downloading this BKC package, customers can be confident that they have the very latest revisions of all reference platform firmware and software, and that those components work together.

## [How to subscribe to BKC notifications](#)

# New Sightings

New sightings in WW31 BKC validation:

ID	Title	Status
1508214951	CScripts Strike CE 3 times check ras.adddc_status_check(0,0) paring_patrol_status.copy is not complete with mix DIMM	Under Investigation
1508044099	kernel Panic while running MCA Recovery- Uncorrectable-Non-Fatal Error Injection-Poison recovery for data path (DRd-Data Read)	Under Investigation
1508194362	CScripts Strike CE 3 times check ras.adddc_status_check(0,0) thld show wrong data	Under Investigation
1508053933	System will meet "#DF - Double Fault" or Kernel Panic after injecting UCNF errors	Under Investigation
1508148697	ASD not working on 4S & 8S, run jtag_test got error.	Under Investigation
1508193803	+1FD should not display if SDDC/ECC does not occur	Under Investigation

Parameter	Definition
Planned fix	This known issue may be fixed in a future BKC release.
Under Investigation	The sighting is under investigation. It may not be a defect.

# Existing Sightings

Existing sightings in BKC validation:

ID	Title	Status
1508182361	System cannot detect the M.2 card on the non-legacy board	Under Investigation
1508134879	[PFR] LAST_PANIC_ACM_BIOS_AUTH_FAILED triggered unexpected recovery during stress flow of Active Update with Error	Under Investigation
1507994224	[PCIe] 8S system with all PCIe slots populated, may not recognize the hard disk from BIOS	Under Investigation
1508018649	[Storage] After changing BIOS settings: PCI 64-Bit Resource disabled and VMD enable, USB and VGA ports don't work	Under Investigation
1507983459	Wrong rank number is shown during 'ADC (SR) Same Bank Different Device' test	Under Investigation
1507879778	Patrol scrub error cannot be promoted to default SRAO type	Under Investigation
1507897329	SINIT Mode Check, PO Required, can't get the expected value under the EFI Shell	Under Investigation
1507843586	After changing 'Host CPU/BIOS Master Access', 'Intel ME Master Access', 'Gbe Master Access' write/read access to 0xffff, SUT can't boot up with hang -9	Under Investigation
1608897346	Red hat 8.0 OS was installed very slowly in RAID 5 and RAID 10 drive	Under Investigation

Parameter	Definition
Planned fix	This known issue may be fixed in a future BKC release.
Under Investigation	The sighting is under investigation. It may not be a defect.

# Closed Sightings

Closed sightings in WW31 BKC validation:

ID	Title	Status
1508173906	System shows bluescreen after unplugging SATA HDD on RAID5	Rejected
1507919731	P-state and T-state value cannot be set successfully by MESDC	Fixed
1508038072	System may hang at "EF" when running G3 cycling on open 8s	Fixed

Parameter	Definition
No fix	There are no plans to fix this issue.
Fixed	This known issue has been fixed.
WA	There is a workaround available for this issue.
Rejected	Investigation identified not a defect or not reproducible.

# Software Configuration

		Ingredient	SW Version Details	Changed vs WW29'20	Location
Firmware		IFWI	2020.30.3.03.0009_0016.P77	2020.28.2.02.0228_0016.P59 → 2020.30.3.03.0009_0016.P77	FirmwarePkg → IFWI\
		PFR_IFWI	PFR_PROD_0016.P77_BtgP3	PFR_PROD_0016.P59_BtgP3 → PFR_PROD_0016.P77_BtgP3	FirmwarePkg → IFWI\PFR\
		SPS	SPS_E5_04.04.04.008.0	SPS_E5_04.04.03.112.0 → SPS_E5_04.04.04.008.0	VIP kit # <a href="#">136658</a>
		ACM	1.0.2	1.0.1 → 1.0.2	FirmwarePkg → ACM\
		BMC	WhitleyOBMC-wht-0.72-0-gfaf206-31e5d79	WhitleyOBMC-wht-0.66-0-g1daab4-31e5d79 → WhitleyOBMC-wht-0.72-0-gfaf206-31e5d79	FirmwarePkg → BMC\
		CPLD_Global	1.0	N	FirmwarePkg → CPLD\Global\
		CPLD_Debug	1.2	N	FirmwarePkg → CPLD\Debug Modular\
		CPLD_PFR_Main	508.5	481.4 → 508.5	FirmwarePkg → CPLD\PFR_Main\
		PFR_Container	WLYDCRB.PB1.SYS.WR.64.2020.30.3.03.0009_0016.P77_P0001d_LBG_SPS_CPX_Pfr_Container	WLYDCRB.PB1.SYS.WR.64.2020.28.2.02.0228_0016.P59_P0001c_LBG_SPS_CPX_Pfr_Container → WLYDCRB.PB1.SYS.WR.64.2020.30.3.03.0009_0016.P77_P0001d_LBG_SPS_CPX_Pfr_Container	FirmwarePkg → PFR_Container\
		Barlow Pass FW	2.2.0.1515	N	FirmwarePkg → Barlow Pass\FW\
		Barlow Pass UEFI	02.00.00.3794	02.00.00.3785 → 02.00.00.3794	FirmwarePkg → Barlow Pass\UEFI\
		VROC_UEFI	7.0.0.2086	N	FirmwarePkg → VROC_UEFI\
Windows	Drivers	VROC_Driver	7.0.0.2291	N	WindowsPkg → Drivers\VROC_Driver\
		Chipset	10.1.18435.8224	10.1.18121.8164 → 10.1.18435.8224	WindowsPkg → Drivers\Chipset\
	Apps	Barlow Pass Management SW	02.00.00.3794	02.00.00.3785 → 02.00.00.3794	WindowsPkg → Apps\Barlow Pass\
	OS	Windows	Windows Server 2020	N	N/A



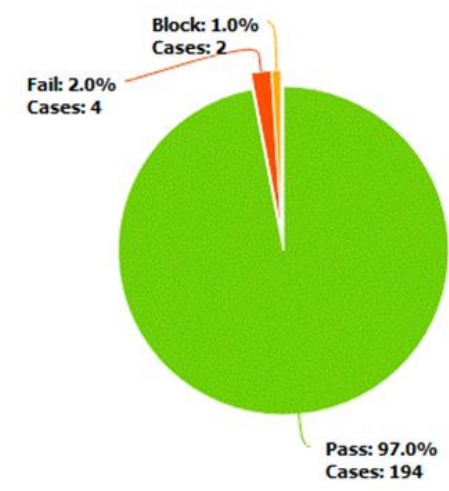
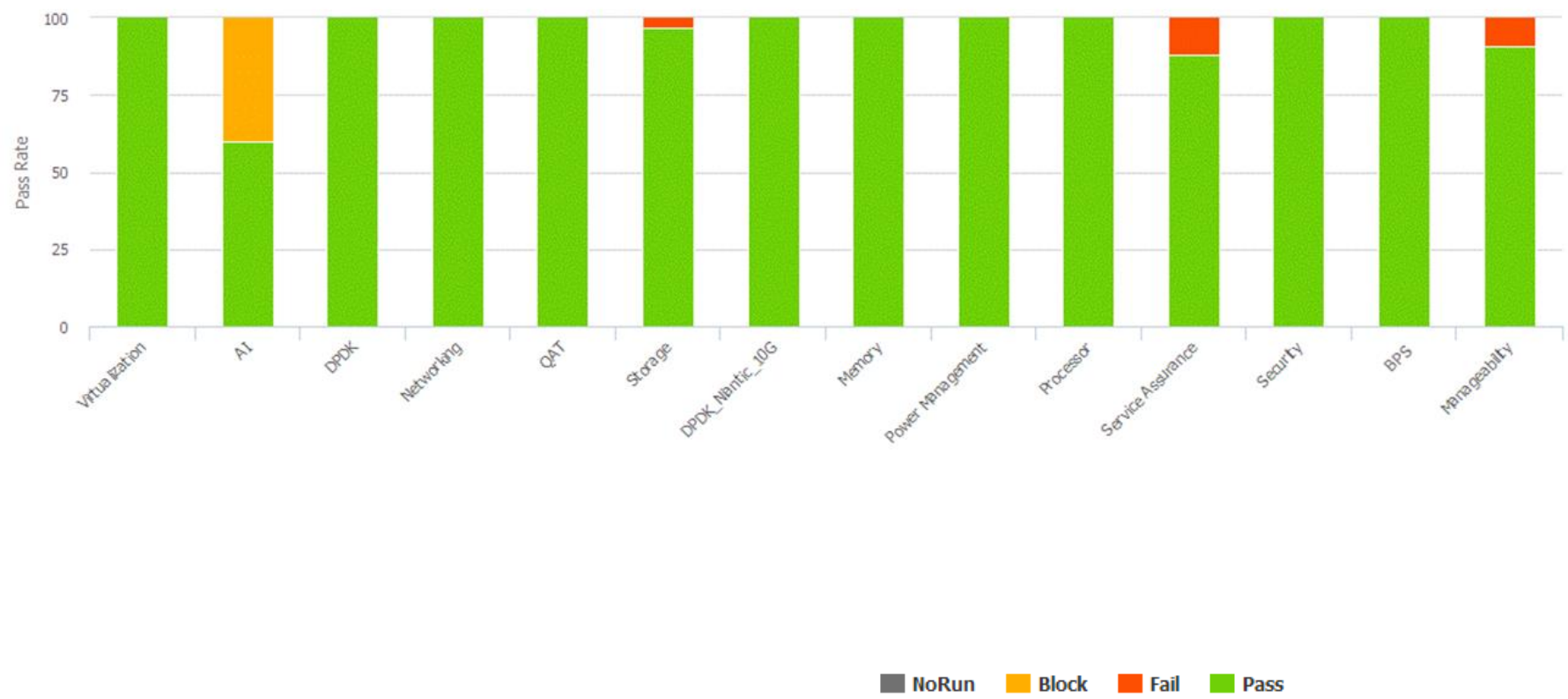
# Software Configuration (continued)

		Ingredient	SW Version Details	Changed vs WW29'20	Location
RHEL	Drivers	QAT	R4.8.0-00005	N	LinuxPkg → RHEL\Drivers\QAT\
		RDТ	rdt release 3.2	N	LinuxPkg → RHEL\Drivers\RDТ\
	OS	Red Hat Enterprise Linux Server	8.2	N	N/A
SLES	Utilities	Barlow Pass Management SW	02.00.00.3794	02.00.00.3785 → 02.00.00.3794	LinuxPkg → SUSE\Utilities\Barlow Pass\
	OS	SUSE Linux Enterprise Server	15 Sp2	N	N/A
VMWare ESXi 7.0.0	Drivers	VROC_ESXi	2.0.0.1146	N	VMWarePkg → Drivers\VROC_ESXi\

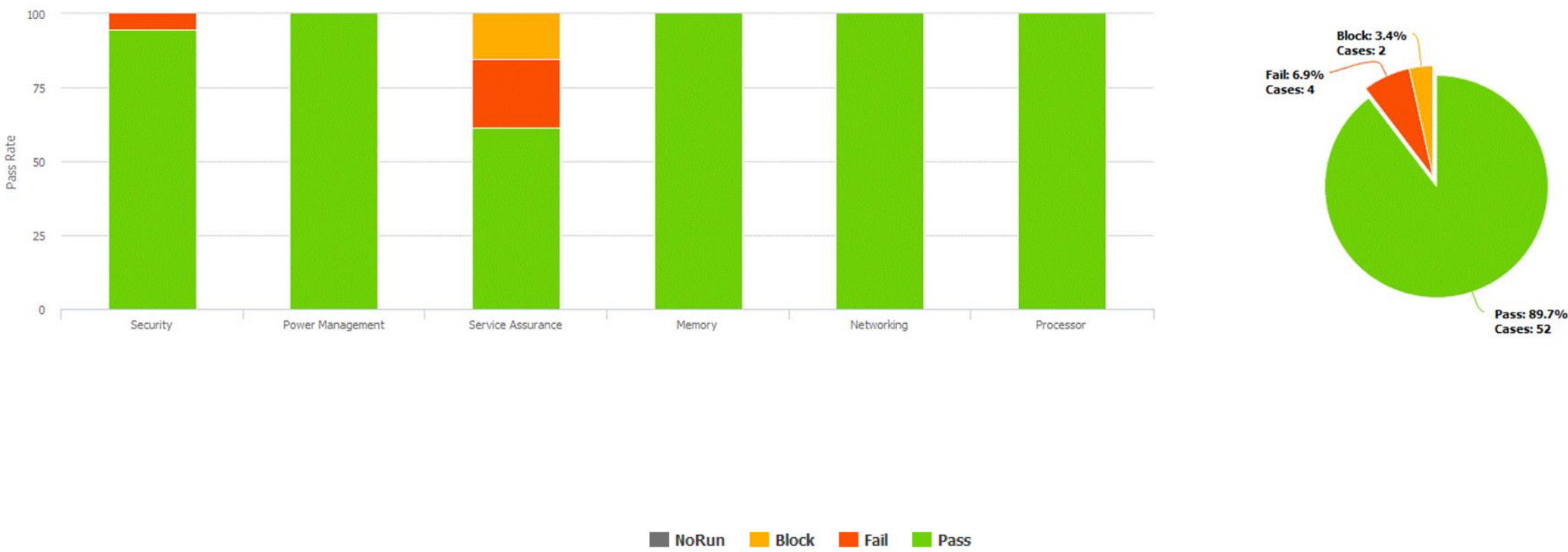
# IFWI Configuration

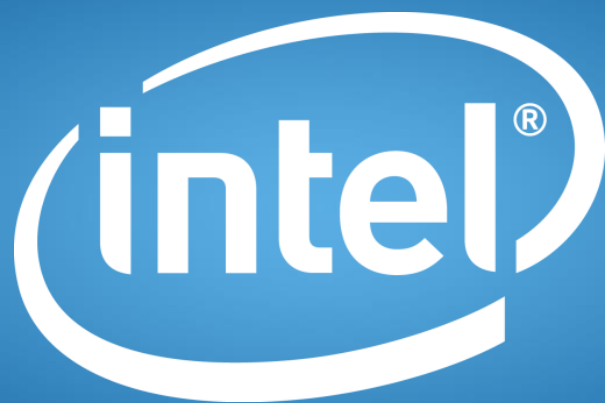
IFWI: 2020.30.3.03.0009_0016.P77		
Ingredient	Version	Changed vs WW29'20
BIOSID	CDRISLE.1.RPB.0016.P.77	CDRISLE.1.RPB.0016.P.59 → CDRISLE.1.RPB.0016.P.77
CPX A0 MCU	mbf5065a_8600001d	mbf5065a_8600001c → mbf5065a_8600001d
CPX A1 MCU	mbf5065b_0700001d	mbf5065b_0700001c → mbf5065b_0700001d
SPS	SPS_E5_04.04.04.008.0	SPS_E5_04.04.03.112.0 → SPS_E5_04.04.04.008.0
BIOSACM	Production,v1.0.2_LBG	Production,v1.0.1_LBG → Production,v1.0.2_LBG
SINIT	Production,v1.0.2_LBG	Production,v1.0.1_LBG → Production,v1.0.2_LBG
BPS UEFI Driver	02.00.00.3794	02.00.00.3785 → 02.00.00.3794
BPS UEFI HII	02.00.00.3794	02.00.00.3785 → 02.00.00.3794
VROC UEFI	7.0.0.2086	N

# WW31 BKC 4S Validation Status



# WW31 BKC 8S Validation Status





# VIP Email Notifications Signup & Update

Setup instructions for your Validation Internet Portal (VIP) Notification Alert. This automatically sends you emails when new items (such as BKC notifications) become available that match the criteria selected.

