



$L \tilde{N}$

i H àl j -2020

i H àl a~ , [" Óæ~k w +, ô~ %† äÓo

ÙFI BṚ Ó , [Õ

Ø [, Ó ã , D } \$ Ø T ' fl , ô ÷ kòç Ó ã ì fl " ¢ 0 \$ Ø ò q

$$\tilde{O} = L^{-1} \sim C \ln \epsilon [-1]$$

~`'o c k 4 U ä Õ̃ k Ø [U + D } % † ? 4

$$t_k U_{k-1} - \frac{1}{2} \frac{g}{k} \sim \frac{1}{2} \frac{g}{k} + 4k$$
$$\emptyset \left[\begin{array}{c} n \\ 0 \end{array} \right] \mathbb{P} \{ x < \hat{O}_y \mid k = k^- \} \approx \hat{O}_+ D \} \quad 0$$

— 126

$$z \in D \implies A \cdot D \in \mathcal{K}, \quad \mathcal{K} \cap D \cup \{k\} \in \mathcal{K} \implies \mathcal{K} \cup \{k\} \in \mathcal{K}$$

R 0

z 4 :~ ¶| gk •1 :~ yÙ Õ Øµ]3GN“F Õg^au ¿ÆV

ho xø ùfl} G F Õk3GN“kç)•À ÑF / ç0

$$z \quad \zeta \quad \tilde{O} \quad x \text{å} k \quad V \quad x \text{å} \quad \tilde{O} \quad \text{£} q \quad y \text{å}$$

z : ~ ... Ñ U Y * web μ ... Ñ 7 Z ÷ ^ ... Ñ E + N 7 Ñ ... p g ...

$$\tilde{N}_k \approx 4 \beta / \gamma \Omega_n \hat{\omega} \beta$$

/^an Q̂ Ø q » † g β / ođđ4đy& q À y' ÷

Gý?– >	2
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1 C|O

1.1 C|^O

: , XÝ" RG-CSXX00PS 'ç :~ ´9 Intel Purley u V G %†.ä¯
E Ł~ o u 4 h 6 Ô6 o o U ýJ Ôò k J 14nm W + òŁ o ´Ý
U 24 DIMM DDR4 k u 4 ECCRegistered C Ú_ä.~ É o

: , ŸÝ RG-CSXX00PS 'ç :~ øµÆ U 12 g2.5 Œ3.5 hSATA % V
F & &y o U Ł ä¯ fi àM k G n ýl ¯ z Æ/Ł BMC/KVM /ì k
°~ òO òk ,y i O ò s ò Ù !yo Õ , ò % O òY
C u 4 IPMITool W ÀG x X q o

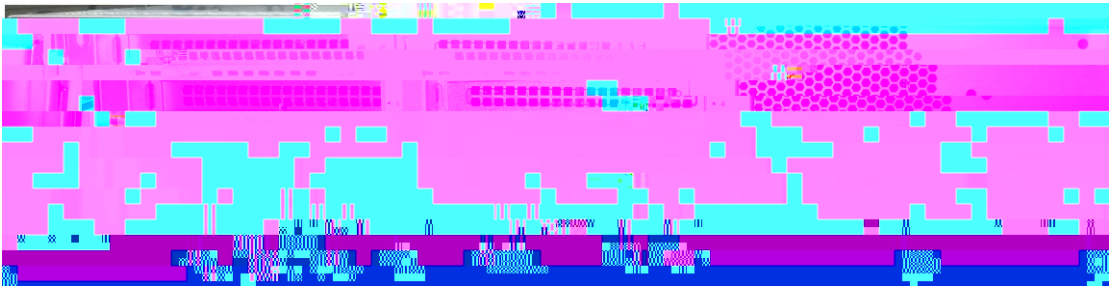
: , ŸÝ RG-CSXX00PS 'ç :~ U Ł U % V # V \$ k u 4 1+1 É
k u 4 PMBus k 80Plus e P y äôE | äk D }¾- Œ o D }
öF E o

1.2 C | P Æ ? d

† C „ Y		CS6000PS	CS3000PS
à Ó		2 x FCLGA3647 V	
		2 x Intel Xeon Casecade Lake CPU	1 x Intel Xeon Casecade Lake CPU
^	U “ V \$		

6	+e\$ÅuLì 7/j&	! h = Þ +e\$Å+O uLì `` h 40¢ +e\$Åæ 2 h ``40¢L &æ
7	3+5 E÷ 7/j &	! h = Þ CPU/ µE÷ `` h 40¢
8	5 5 (æ 7/j&	5 5 F Ò h ``5/& L &æ F h Þ 5 5 F Ò 7/j& = Þ * # ? Ò 7/j PHY (æ

1.3.3 d ´



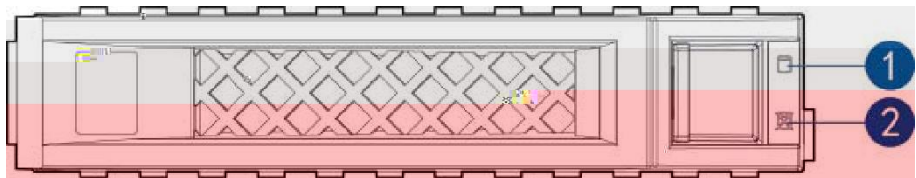
F&•ifñ: 64&r^f8•

5F ´	B* D
1	PSÙ
2	PSÙ
3	7 v5 0
4	7 v5 1
5	UID RST 9K^
6	



-	B* D
0	SSD3+5
1	SSD' Cache
2~4	- }
5~11	Ø - }

%.- 7/j& B\$ >

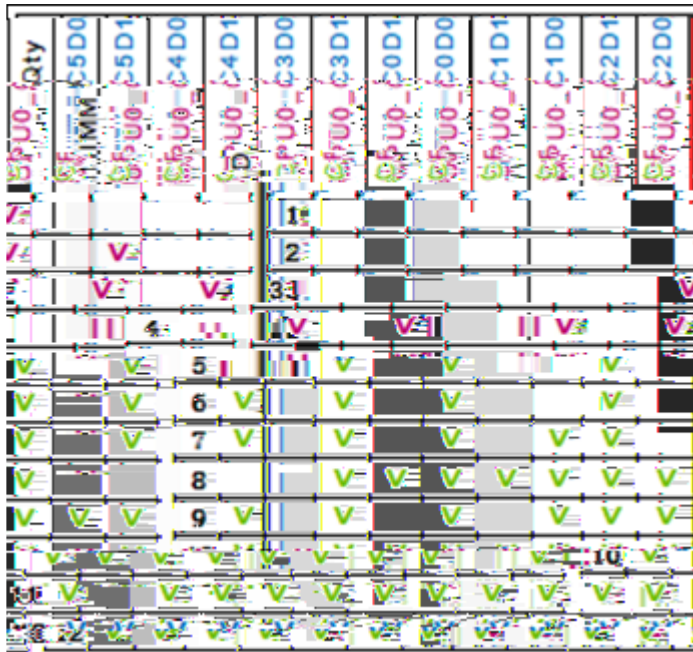


5L -	Q =0	B* D
1	.- #k Qæ 7/j &	5/8¢ h P :! h
		5/8¢L &æ Ö- F > B+ £#k Ø
2	.- uLi Æ 7/j&	h £Q¢ Ö- *)àuLi
		h £8¢ Ö- ° }
		h £8¢ £} 8 RAID Rebuilding

1.5

DIMM Qty	CPU1_C5D0	CPU1_C5D1	CPU1_C4D0	CPU1_C4D1	CPU1_C3D0	CPU1_C3D1	CPU1_C0D1	CPU1_C0D0	CPU1_C1D1	CPU1_C1D0	CPU1_C2D1	CPU1_C2D0	CPU0_C5D0	CPU0_C5D1	CPU0_C4D0	CPU0_C4D1	CPU0_C3D0	CPU0_C3D1	CPU0_C0D1	CPU0_C0D0	CPU0_C1D1	CPU0_C1D0	CPU0_C2D1	CPU0_C2D0
1																				✓				
2								✓												✓				
3								✓												✓		✓		
4								✓		✓										✓		✓		
5								✓		✓										✓		✓		✓
6								✓		✓		✓								✓		✓		✓
7								✓		✓		✓					✓			✓		✓		✓
8			✓		✓			✓		✓					✓		✓			✓		✓		
9			✓		✓			✓		✓					✓		✓			✓		✓		✓

CPU0



I u=Æ m V= ^ G ^ g @ ç V= ^ ;¥ G ^ o ¾ G P fi æ u
= < CPU ,· µ FJF ^!Q x„> CPU0)~,· 0 Z µ -¨ % „> CPU1)~,· 0 Z,· µ - ×
< 0 µ FJF x>N“ ç ^!Q „> 0 ^ 1 T Z µ - } ×
= 9' :?ôl „> µ 7-,8\$ k j W7-L} ~¨UGý· J *)àµ # G Aö[+J8# ,8\$ k j
C\$ j ~U ^1y uLì ~

1.6 Q -

`B. 2 RGCSXX00 V1.XX 3+ G`=Ñ , T Z+e\$À -¨ _1'¨ _1 1+1¨¨ U AÔ7G} T Z
3+5 +e\$À¨ Z+e\$A0 WE^* 800W

1.6.1 Q - P Æ

N'-

		40¢ h p	3+5 +e\$ÄuLì
--	--	---------	--------------

2 9 § G † Ø Ô

2.1 μ ‘

p ¼Fμ f / ð ÅÂô =FV F Z é ,B- ^ ¿>û Ç C × ž f 4üL;B1 b œ,° ¿ ž 0Aä >
A,° ¿ ž 0Aä # ; a v ? %73 0)æ,° §LŸ û ë >

2.1.1 ø — μ ‘

X ` = Ñ „,I ... fl+XE-Ø;](‘ * † ;, „ *ApÖ
1 ¯B' 6 ` = Ñ „,I X 19 9! (7 öj μ×
2 ¯B' =?– 6 ` = Ñ n5 X % \$fl, · ‘ Ø ” =?–Aü#â F ` = Ñ “ 1 j1Æ\$5#1 “ H ~
3 ¯B' 6 ` = Ñ n5 XF /° \$Ä, · Ø ~
4 ¯B'. AÔ j ...G}+e3+5,· h Ö ~
5 ¯ =?– 6Aî 7 n X>|C j μ~ =?–0fl-p fl , · =>I Lb . &FP @ “ j! B'3+3W> V ^ \$
· “ ~> > ~
6 ¯ 6 § ^ & n XF /° Æ >|C , · ‘ Ø Lb.à , ~

2.1.2 ? 6 μ

` = Ñ 0 ...GýGýE† W ¯B' X \F Aî 7 & “ # ? ;?–"r Ö
~Ffl }N`4q0+ Äî 7 ~
0+ ØF \F { }B' £L p 9+e\$Ä” „ p 9+e\$Ä...+e56 ~
0+ Äî 7 & ~8# A+a T Æ ... @ “ /–! Æ ý ~
0+ Äî 7 & “ # ? £> “Ffl }.àT7fl ...7J “ T7 ~

2.1.3 Ô μ

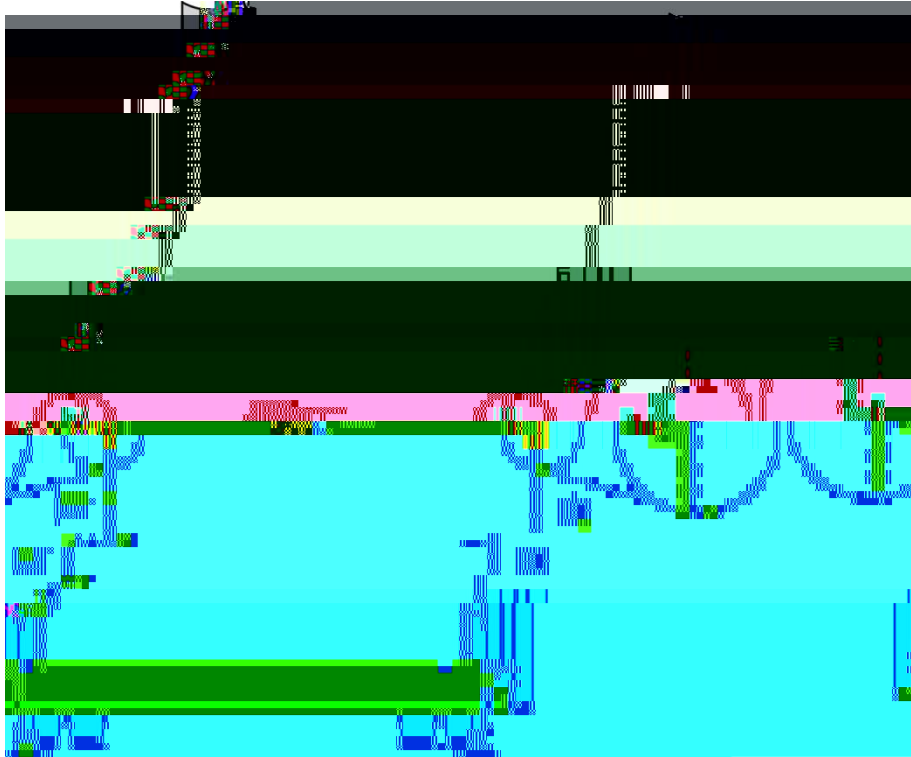
F >|+e"D ý & “ iN«F¥, p X ‘, # ?ô...?03 ~-(£ Æ iN« § 9-(, · J Ct l ~
B' 4öð j μ_ V X% X, · jL “ “ †+e\$ÄZ Ö “+e\$ÄÖ = M “ ‘M _ V% \$fl1y ~
X „,I } “?–. F p X Ô,·3W U+e\$Ä0 £, · }5 “ +O ? F & “?– x 7 Ý+e\$Ä0 £ ~
M0?– £L +e\$Ä& “ 0 °?– 4öð . AÖ
B' =?– "Aî 7 n X% \$fl, · ‘ Ø ” =?–Aü#â F Aî 71Æ μ~

-
- a** C?ú99 = C!™,α,°+k"J ' %73 KC-&¡&´ L+k 11• E L Á { , - / ð % ÅÂô =FV F [H =8* 3,° Z é >
- a** -* Û LFPEý%μ(Ÿ %L* Û Û@ Q Á = 8+k , %73 \>8* 3 §LŸ >
-

2.1.4 Ô μ

jLb! M +e.d “ ~ ‘ Ö
Aî 7 œ j 8 > Ö ~

- (1) B' fl+X 4 0ß!,· 19 9! (7 öj ~
(2) 19 9! (7 öj # T ×Ø {L\$,·L\$D j 465mm ~
. j 19 9! (7 öj /j ? .



~ 3 _ j 0ß ! Ø D ° } j L F × W ¾ 180mm ¨ D } j L , ° Ö ? ¾ 25mm ¨ Aæ +X0 ¨ L\$ W
¾ 155mm × j \$! Ö } > L {L\$,·D ° ¯ W ¾ 1000mm ×
~ 4 _ j ,·% F ~ F - ¯ ~ 7-% C^a ` = Ñ œ f ,· flGy? - "r ~
~ 5 _ j 9 M ,· Ö1 ¨ Aæ ` = Ñ u 6 Ö ~
~ 6 _ j 98 > ,· FJNp ' 3+5 ¨ } > L ,· LË • W ¾ 50% ~

2.4 9 § G V ¿ x f Ô

h+X §	q =E M 0 ^-(£ ,·+e56 ^5 4i ^ : æE C ^ Ì J ^a ^ v ~ V
C+X §	LbM +e{ ^ 4iJ ^a ^ »4iJ ^a ~"d f d »4iJ ^a ^ 4i 0
>	7+X>
-(£Aî 7	PC j ^ n/j

G < -M6?·+^ m8 ' ü = >

3 C | Ø G

B-.ϡAU ρ (5 4üL;B11b Â1 ,° » ĭ ,.ϡAU1b Â1 vF&,°?."x (5 % Cé >

3.1 ,´ G y

,E +a FE ^]E ^µE ... *° &4ô@ ~



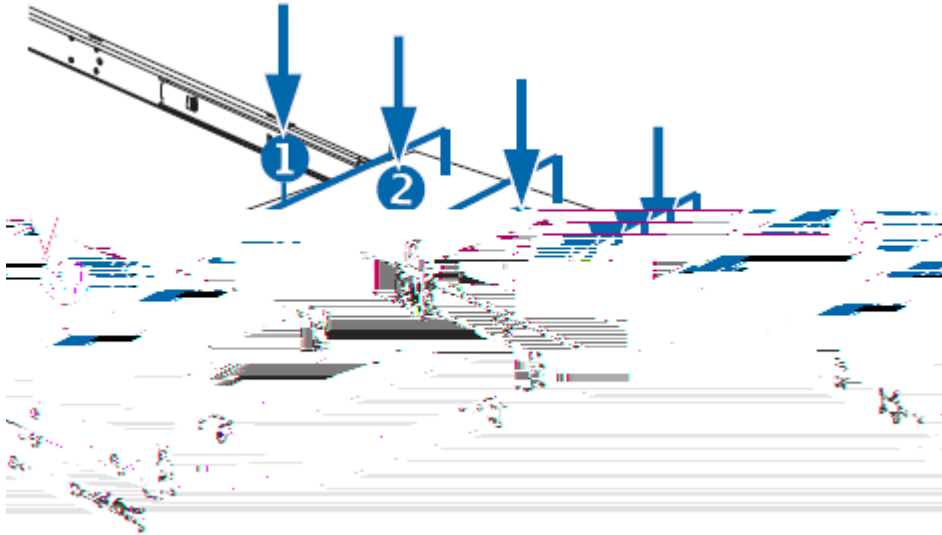
„>ı ,E

1 ^ X j ∴ ° > ,E > _ æ „>ı }5

3.2 † c Ì

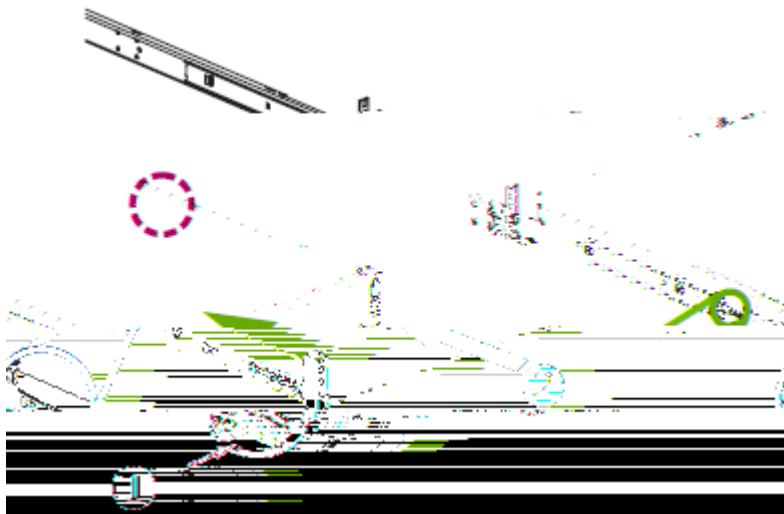
1^ ŨS` = Ñ 6 f T ×4 ZJŨ,, > ,E < 0 ı· ZJŨ,, - })U "f>" = Ñ A > n Ì
6 = Ñ > ^] ^ } JŨ,, !Q ' ,E , JŨ,, - }] ~

5 e # "



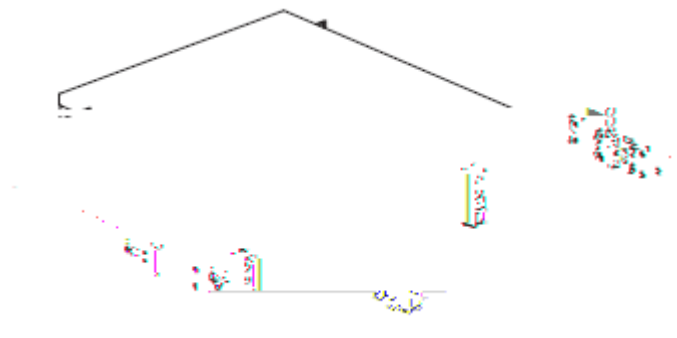
2^ 9 » .] 7 p/j , · ,E T × " 6 ` = Ñ 9' .] 81Yd p/j , · Ø A Ø j

~



3^ 6 ` = Ñ Ø j > " 6 ` = Ñ # " { , = Æ M * ° (*

~



3.4 Ø f Ô L ä

~!Q 6L¿ jG}F1+e\$Äi '3+5 +e\$Ä ~
+e\$Äi d ' +e\$Ä ' ~. AÔ +e\$Ä d}'' k+e\$Ä e\$Ä _ £L ,. ~
F Œ+5 5 5 '' s v 5 5 4i j 7 ö RJ45 Œ ~
F Œ Œ 5 '' 7 v5 j SFP+ y '' y Q æ y4Œi56 ~

[a](#) B- x û µ+^LÅ pGfF7+k\$Æ4ö, f KC- ¿ ž Á {

3.5 G d Ø ó Ó

`=Ñ j à„>ı ... @>''X `=Ñ :+e _ ØB' xF>|†; ð Ö
9 `=Ñ „>ı X j :''B' ð j > `=Ñ ,. „>ı@ Jæ _ V(* Ø „>ı X :''B' ð
`=Ñ \$ _ V+ 9Cª O, . ' 0"L\$'' _ V0c *~
ð +e\$Äi _ V fl+XL¿ j 7G}?ðl ~
ð j Œ _ v8 > ~
ð `=Ñ >G}5 4l1 1y f †Aî 7,.F Œ£3+ _ V! . ~
ð +e\$Äi56Kfl Œ _ VCª O ``Ffl }+e\$Äi 4 Ƨ'3W(æ ~
X „>ı } ``?- . p X Œ. 3W U+e\$Ä0 £,. j5 '' +O ? F & ``?- x 7 Ÿ+e\$Ä0 £ ~

4 n N \ m Ó

4.1 9 § † Ô

~ uLl ÿF — j >+e\$Äi > 9 0 £ 9Jp " ` = Ñ } M fl 7/j& ~ —+e(æ1 7/j& ^ . - (æ1 7/j& —
w = P' < & n/j n/jE^ * "Npw =E Ø ~
. AÔ+e _ V! h Ö 9 +e\$ÄQ , 7/j& pl> > ,+e! h x†+e\$ÄQ & = P'B' ð ,+e _ V!
h ~ B' ð +e\$Äi d æ x _ V fi Ø —~
B'. AÔ ` = Ñ +e\$ÄQ 7/j(æ1 ~ 8¢ Öe\$ÄQ uLl 5/8¢L &æ Ö DC "Œ^ * x—
B'Gýà +e\$ÄQ :+e " %!Q 0 jP...Aæ ~
† 9 <2« » ' j <G}5 +e\$ÄQ " \$ +e\$ÄQ F >| ÔP...Aæ _ V j+e\$ÄuLl ~

a , Ò @ ' {LÒ ` @ é , B- D % f <K6 | L 400 ¶ e e 7 ð Ž6Š31 >

4.2 9 § n n

~ uLl ÿF — = Ñ :+e > "Npw ^+e\$ÄQ ! h , = Ñ # F TUI +|M , = Ñ # ping FJ ~
B'F Ö= Ñ n/j . AÔ= Ñ 0 j (æ1
9 ` = Ñ n/j E^ *U F65 X bios M ß F+|M , † Œj +|M # ;@ 9 9 T Z F9! • 1V "
B' MB µ "Gýà:+e _ Ø
9 ` = Ñ n/j E^ *U D :@ 9 y 7L &æ "B'Gý_ Aî 7 9 Delete K^F bios . AÔ+5 - _ V
X } ~

, Ò @ ö .AÚ 6 =G3"xL\$NÎ , B- D % f <K6 | L 400 ¶ e e 7 ð 6Š31

4.3 9 § n n