

PA-RISC 1.1 Firmware Architecture Reference Specification

Version 0.96

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B. Version and Identification Numbers

B.1 Allocation

Allocation of all version numbers and IDs is controlled by the System Architecture Lab. Requests for number assignments should be sent to the address listed in the Preface.

B.2 Version Numbers

B.2.1 Module Version Numbers

Both hardware and software model numbers (HVERSION[model] and SVERSION[model]) are assigned beginning at 4 and at intervals of 1. Software revision levels (SVERSION[rev]) begin at 0 and are incremented by 1 for each new revision.

The table below shows the assigned TYPE, SVERSION, and HVERSION numbers for each of the current modules. It is sorted in order of increasing SVERSION[model] value. All values are hexadecimal.

TABLE B-1. Module Version Numbers

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Native Processor ¹	NPROC	00004	xx	xxx
Indigo (840, 930)	NPROC	00004	01	004
Firefox (825, 925)	NPROC	00004	01	008
Top Gun (835, 834, 935, 635)	NPROC	00004	01	00A
Technical Shogun (845, 645)	NPROC	00004	01	00B
Commercial Shogun (949)	NPROC	00004	01	00F
Cheetah (850, 950)	NPROC	00004	01	00C
Cheetah (950S)	NPROC	00004	01	080
Jaguar (855, 955)	NPROC	00004	01	081
Cougar (860, 960)	NPROC	00004	01	082
Panther (865, 870, 980)	NPROC	00004	13	083
Burgundy (810)	NPROC	00004	01	100
SilverFox Low (822, 922)	NPROC	00004	01	101
SilverFox High (832, 932)	NPROC	00004	01	102
Lego, SilverLite (815, 808, 920)	NPROC	00004	01	103
SilverBullet Low (842, 948)	NPROC	00004	03	104
SilverBullet High (852, 958)	NPROC	00004	03	105
Oboe	NPROC	00004	81	106
Dragon	NPROC	00004	12	180
Chimera (890, 990, 992)	NPROC	00004	13	181
TNT 100 (891,T500)	NPROC	00004	91	182
TNT 120 (892,T520)	NPROC	00004	91	183
Jade 180 U (893,T540)	NPROC	00004	91	184
Hitachi X Processor	NPROC	00004	91	1FF
Cobra (720)	NPROC	00004	81	200
Coral (750)	NPROC	00004	81	201
King Cobra (730)	NPROC	00004	81	202
Hardball (735/99)	NPROC	00004	81	203
Coral II (755/99)	NPROC	00004	81	204
Coral II (755/125)	NPROC	00004	81	205
Snake Eagle	NPROC	00004	91	205
Snake Cheetah (735/130)	NPROC	00004	81	206
Nova Low (817, 827, 957, 957LX)	NPROC	00004	81	280
Nova High (837, 847, 857, 967, 967LX)	NPROC	00004	81	281
Nova8 (807, 917, 917LX, 927, 927LX, 937, 937LX, 947, 947LX)	NPROC	00004	81	282
Nova64 (867, 877, 977)	NPROC	00004	81	283
TNova (887, 897, 987)	NPROC	00004	81	284

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
TNova64	NPROC	00004	81	285
Hydra64 (Nova)	NPROC	00004	91	286
Hydra96 (Nova)	NPROC	00004	91	287
TNova96	NPROC	00004	81	288
Bushmaster (710)	NPROC	00004	81	300
Flounder (705)	NPROC	00004	81	302
Scorpio (715/50)	NPROC	00004	81	310
Scorpio Jr.(715/33)	NPROC	00004	81	311
Strider-50 (715S/50)	NPROC	00004	81	312
Strider-33 (715S/33)	NPROC	00004	81	313
Trailways-50 (715T/50)	NPROC	00004	81	314
Trailways-33 (715T/33)	NPROC	00004	81	315
Scorpio Sr.(715/75)	NPROC	00004	81	316
Scorpio 100 (715/100)	NPROC	00004	81	317
Spectra (725/50)	NPROC	00004	81	318
Spectra (725/75)	NPROC	00004	81	319
Spectra (725/100)	NPROC	00004	81	320
Pace (745i, 747i)	NPROC	00004	81	401
Sidewinder (742i)	NPROC	00004	81	402
Fast Pace	NPROC	00004	81	403
Orville (E23)	NPROC	00004	81	480
Wilbur (E25)	NPROC	00004	81	481
WB-80 (E35)	NPROC	00004	81	482
WB-96 (E45)	NPROC	00004	81	483
UL Proc L-100 (811/D210,D310)	NPROC	00004	81	484
UL Proc L-75 (801/D200)	NPROC	00004	81	485
Merlin L2 132 (9000/778/B132L)	NPROC	00004	81	501
Merlin L2 160 (9000/778/B160L)	NPROC	00004	81	502
Merlin L2+ 132 (9000/778/B132L)	NPROC	00004	81	503
Merlin L2+ 180 (9000/778/B180L)	NPROC	00004	81	504
Raven L2 132 (9000/778/C132L)	NPROC	00004	81	505
Raven L2 160 (9000/779/C160L)	NPROC	00004	81	506
Raven L2 180 (9000/779/C180L)	NPROC	00004	81	507
Raven L2 160 (9000/779/C160L)	NPROC	00004	81	508
712/132 L2 Upgrade	NPROC	00004	81	509
712/160 L2 Upgrade	NPROC	00004	81	50A
715/132 L2 Upgrade	NPROC	00004	81	50B
715/160 L2 Upgrade	NPROC	00004	81	50C
Rocky2 L2 120	NPROC	00004	81	50D
Rocky2 L2 150	NPROC	00004	81	50E
Anole L2 132 (744)	NPROC	00004	81	50F
Anole L2 165 (744)	NPROC	00004	81	510
Kiji L2 132	NPROC	00004	81	511
UL L2 132 (803/D220,D320)	NPROC	00004	81	512
UL L2 160 (813/D220,D320)	NPROC	00004	81	513
Merlin Jr L2 132	NPROC	00004	81	514
Staccato L2 132	NPROC	00004	81	515
Staccato L2 180	NPROC	00004	81	516
KittyHawk DC2-100 (K100)	NPROC	00004	81	580

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
KittyHawk DC3-120 (K210)	NPROC	00004	91	581
KittyHawk DC3 100 (K400)	NPROC	00004	91	582
KittyHawk DC3 120 (K410)	NPROC	00004	91	583
LighteningHawk T120	NPROC	00004	91	584
SkyHawk 100	NPROC	00004	91	585
SkyHawk 120	NPROC	00004	91	586
UL Proc 1-way T'120	NPROC	00004	81	587
UL Proc 2-way T'120	NPROC	00004	91	588
UL Proc 1-way T'100 (821/D250,D350)	NPROC	00004	81	589
UL Proc 2-way T'100 (831/D250,D350)	NPROC	00004	91	58A
KittyHawk DC2 100 (K200)	NPROC	00004	91	58B
ThunderHawk DC3- 120 1M (K220)	NPROC	00004	91	58C
ThunderHawk DC3 120 1M (K420)	NPROC	00004	91	58D
Raven 120 T'	NPROC	00004	81	58E
Mohawk 160 U 1M DC3 (K450)	NPROC	00004	91	58F
Mohawk 180 U 1M DC3 (K460)	NPROC	00004	91	590
Mohawk 200 U 1M DC3	NPROC	00004	91	591
Raven 100 T'	NPROC	00004	81	592
FireHawk 160 U	NPROC	00004	91	593
FireHawk 180 U	NPROC	00004	91	594
FireHawk 220 U	NPROC	00004	91	595
FireHawk 240 U	NPROC	00004	91	596
SPP2000 processor	NPROC	00004	91	597
Raven U 230 (9000/780/C230)	NPROC	00004	81	598
Raven U 240 (9000/780/C240)	NPROC	00004	81	599
	NPROC	00004	xx	59A
Raven U 160 (9000/780/C160)	NPROC	00004	81	59B
Raven U 180 (9000/780/C180)	NPROC	00004	81	59C
Raven U 200 (9000/780/C200)	NPROC	00004	81	59D
ThunderHawk T' 120	NPROC	00004	91	59E
Raven U 180+ (9000/780/????)	NPROC	00004	91	59F
UL 1w T120 1MB/1MB (841/D260,D360)	NPROC	00004	81	5A0
UL 2w T120 1MB/1MB (851/D260,D360)	NPROC	00004	91	5A1
UL 1w U160 512K/512K (861/D270,D370)	NPROC	00004	81	5A2
UL 2w U160 512K/512K (871/D270,D370)	NPROC	00004	91	5A3
Mohawk 160 U 1M DC3- (K250)	NPROC	00004	91	5A4
Mohawk 180 U 1M DC3- (K260)	NPROC	00004	91	5A5
Mohawk 200 U 1M DC3-	NPROC	00004	91	5A6
UL proc 1-way U160 1M/1M	NPROC	00004	81	5A7
UL proc 2-way U160 1M/1M	NPROC	00004	91	5A8
UL proc 1-way U180 1M/1M	NPROC	00004	81	5A9
UL proc 2-way U180 1M/1M	NPROC	00004	91	5AA
Obsolete	NPROC	00004	xx	5AB
Obsolete	NPROC	00004	xx	5AC
BraveHawk 180MHz DC3-	NPROC	00004	91	5AD
BraveHawk 200MHz DC3- (898/K370)	NPROC	00004	91	5AE
BraveHawk 220MHz DC3-	NPROC	00004	91	5AF
BraveHawk 180MHz DC3	NPROC	00004	91	5B0
BraveHawk 200MHz DC3 (899/K570)	NPROC	00004	91	5B1

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
BraveHawk 220MHz DC3	NPROC	00004	91	5B2
FireHawk 200	NPROC	00004	91	5B3
SPP2500	NPROC	00004	91	5B4
SummitHawk U+	NPROC	00004	91	5B5
DragonHawk U+ 240 DC3	NPROC	00004	91	5B6
DragonHawk U+ 240 DC3-	NPROC	00004	91	5B7
SPP2250 240 MHz	NPROC	00004	91	5B8
UL 1w U+/240 (350/550)	NPROC	00004	81	5B9
UL 2w U+/240 (350/550)	NPROC	00004	91	5BA
AllegroHigh W	NPROC	00004	81	5BB
AllegroLow W	NPROC	00004	81	5BC
Forte W 2-way	NPROC	00004	91	5BD
Prelude W	NPROC	00004	91	5BE
Forte W 4-way	NPROC	00004	91	5BF
M2250	NPROC	00004	91	5C0
M2500	NPROC	00004	91	5C1
Hitachi W	NPROC	00004	??	5FF
Gecko (712/60)	NPROC	00004	81	600
Gecko 80 (712/80)	NPROC	00004	81	601
Gecko 100 (712/100)	NPROC	00004	81	602
Anole 64 (743/64)	NPROC	00004	81	603
Anole 100 (743/100)	NPROC	00004	81	604
Gecko 120 (712/120)	NPROC	00004	81	605
Gila 80	NPROC	00004	81	606
Gila 100	NPROC	00004	81	607
Gila 120	NPROC	00004	81	608
Scorpio-L 80	NPROC	00004	81	609
Mirage Jr	NPROC	00004	81	60A
Mirage 100	NPROC	00004	81	60B
Mirage 100+	NPROC	00004	81	60C
Electra 100	NPROC	00004	81	60D
Electra 120	NPROC	00004	81	60E
Scorpio-L 100	NPROC	00004	81	610
Scorpio-L 120	NPROC	00004	81	611
Spectra-L 80	NPROC	00004	81	612
Spectra-L 100	NPROC	00004	81	613
Spectra-L 120	NPROC	00004	81	614
Piranha 100	NPROC	00004	81	615
Piranha 120	NPROC	00004	81	616
Jason 50	NPROC	00004	81	617
Jason 100	NPROC	00004	81	618
Mirage 80	NPROC	00004	81	619
SAIC L-80	NPROC	00004	81	61A
Rocky1 L-60	NPROC	00004	81	61B
Anole T (743/T)	NPROC	00004	81	61C
Hitachi Tiny 80	NPROC	00004	81	67E
Hitachi Tiny 64	NPROC	00004	81	67F
NEC Aska Processor	NPROC	00004	91	700
Architected Memory ¹	MEMORY	00008	xx	xxx

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
MID_BUS	MEMORY	00008	00	002
Kahlua 8MB	MEMORY	00008	08	00C
Kahlua 4MB	MEMORY	00008	08	00D
Tequila 16MB	MEMORY	00008	08	00E
Tequila 32MB	MEMORY	00008	08	00F
Hitachi	MEMORY	00008	00	040
Proc-dep Memory ¹	MEMORY	00009	xx	xxx
Cheetah	MEMORY	00009	00	004
Emerald	MEMORY	00009	00	005
Indigo 3MB/5MB	MEMORY	00009	00	008
Indigo 8MB	MEMORY	00009	00	00C
Paradise 4MB	MEMORY	00009	00	00D
Burgundy Onboard	MEMORY	00009	00	00E
Indigo 12MB/20MB	MEMORY	00009	00	012
Cobra	MEMORY	00009	00	013
Nova	MEMORY	00009	00	014
Coral	MEMORY	00009	00	015
Bushmaster	MEMORY	00009	00	016
Scorpio	MEMORY	00009	00	017
Flounder	MEMORY	00009	00	018
Hardball	MEMORY	00009	00	019
CoralII 99	MEMORY	00009	00	01A
Scorpio Jr.	MEMORY	00009	00	01B
Strider-50 (715T)	MEMORY	00009	00	01C
Strider-33 (707T)	MEMORY	00009	00	01D
Trailways-50 (715S)	MEMORY	00009	00	01E
Trailways-33 (707S)	MEMORY	00009	00	01F
Pace	MEMORY	00009	00	020
Sidewinder	MEMORY	00009	00	021
Orville	MEMORY	00009	00	022
Wilbur	MEMORY	00009	00	023
Gecko	MEMORY	00009	00	026
Scorpio Sr.	MEMORY	00009	00	027
Scorpio 100	MEMORY	00009	00	028
Spectra 50	MEMORY	00009	00	029
CoralII 132	MEMORY	00009	00	02A
KittyHawk DC2-	MEMORY	00009	00	02F
Spectra 75	MEMORY	00009	00	030
Spectra 100	MEMORY	00009	00	031
KittyHawk DC3	MEMORY	00009	00	032
Fast Pace	MEMORY	00009	00	033
Snake Eagle	MEMORY	00009	00	034
Anole 64	MEMORY	00009	00	035
Anole 100	MEMORY	00009	00	036
Snake Cheetah	MEMORY	00009	00	037
Gecko 80	MEMORY	00009	00	038
Gecko 100	MEMORY	00009	00	039
Gecko 120	MEMORY	00009	00	03A
Gila 80	MEMORY	00009	00	03B

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Gila 100	MEMORY	00009	00	03C
Gila 120	MEMORY	00009	00	03D
Scorpio-L 80	MEMORY	00009	00	03E
Scorpio-L 100	MEMORY	00009	00	03F
Scorpio-L 120	MEMORY	00009	00	040
Spectra-L 80	MEMORY	00009	00	041
Spectra-L 100	MEMORY	00009	00	042
Spectra-L 120	MEMORY	00009	00	043
Piranha 100	MEMORY	00009	00	044
Piranha 120	MEMORY	00009	00	045
Jason 50	MEMORY	00009	00	046
Jason 100	MEMORY	00009	00	047
SkyHawk 100/120	MEMORY	00009	00	049
Mirage Jr	MEMORY	00009	00	04A
Mirage 100	MEMORY	00009	00	04B
Mirage 100+	MEMORY	00009	00	04C
Electra 100	MEMORY	00009	00	04D
Electra 120	MEMORY	00009	00	04E
Mirage 80	MEMORY	00009	00	04F
UL Proc 1 way T'100	MEMORY	00009	00	050
UL Proc 1 way T'120	MEMORY	00009	00	051
UL Proc 2 way T'100	MEMORY	00009	00	052
KittyHawk DC3-	MEMORY	00009	00	053
UL Proc 2 way T'120	MEMORY	00009	00	054
Raven 120 mem	MEMORY	00009	00	055
UL Proc L 75	MEMORY	00009	00	056
UL Proc L 100	MEMORY	00009	00	057
Anole T	MEMORY	00009	00	058
SAIC L-80	MEMORY	00009	00	059
Merlin+ L2 180	MEMORY	00009	00	05A
Raven U 200 2-way	MEMORY	00009	00	05B
Raven U 180+	MEMORY	00009	00	05C
Raven U 200	MEMORY	00009	00	05D
Rocky2 150 Memory	MEMORY	00009	00	05E
Staccato L2 132 Memory	MEMORY	00009	00	08A
Staccato L2 180 Memory	MEMORY	00009	00	08B
SPP2000 Memory	MEMORY	00009	00	05F
Merlin L2 132	MEMORY	00009	00	060
Merlin+ L2 132	MEMORY	00009	00	061
				062
712/132 L2 Upgrade	MEMORY	00009	00	063
712/160 L2 Upgrade	MEMORY	00009	00	064
715/132 L2 Upgrade	MEMORY	00009	00	065
715/160 L2 Upgrade	MEMORY	00009	00	066
ThunderHawk Memory	MEMORY	00009	00	067
Merlin L2 160	MEMORY	00009	00	067
LightningHawk Memory	MEMORY	00009	00	068
Rocky1 Memory	MEMORY	00009	00	069
Raven L2 132	MEMORY	00009	00	06A

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Raven L2 160	MEMORY	00009	00	06B
Raven L2 187	MEMORY	00009	00	06C
Raven L2 200	MEMORY	00009	00	06D
Raven U 230	MEMORY	00009	00	06E
Raven U 240	MEMORY	00009	00	06F
Rocky2 120 Memory	MEMORY	00009	00	070
Raven U 160	MEMORY	00009	00	071
Raven U 180	MEMORY	00009	00	072
UL Proc 1 way T'120 1MB/1MB	MEMORY	00009	00	072
UL Proc 2 way T'120 1MB/1MB	MEMORY	00009	00	073
Anole L2 132 memory	MEMORY	00009	00	074
Anole L2 165 memory	MEMORY	00009	00	075
UL 1 way U160 512K/512K memory	MEMORY	00009	00	076
UL 2 way U160 512K/512K memory	MEMORY	00009	00	077
Kiji L2 132 memory	MEMORY	00009	00	078
UL 1 way U160 1M/1M memory	MEMORY	00009	00	079
UL 2 way U160 1M/1M memory	MEMORY	00009	00	07A
UL 1 way U180 1M/1M memory	MEMORY	00009	00	07B
UL 2 way U180 1M/1M memory	MEMORY	00009	00	07C
UL 1 way U240 U+ 2M/2M memory	MEMORY	00009	00	07D
UL 2 way U240 U+ 2M/2M memory	MEMORY	00009	00	07E
UL L2 132 memory	MEMORY	00009	00	07F
UL L2 160 memory	MEMORY	00009	00	080
Merlin Jr 132 memory	MEMORY	00009	00	081
FireHawk 200 Memory	MEMORY	00009	00	082
SummitHawk Memory	MEMORY	00009	00	083
Jade Upgrade Memory	MEMORY	00009	00	084
SPP2500 Memory	MEMORY	00009	00	085
AllegroHigh Memory	MEMORY	00009	00	086
AllegroLow Memory	MEMORY	00009	00	087
Forte 2w Memory	MEMORY	00009	00	088
Forte 4w Memory	MEMORY	00009	00	089
Staccato L2 132 Memory	MEMORY	00009	00	08A
Staccato L2 180 Memory	MEMORY	00009	00	08B
Prelude SMC Memory	MEMORY	00009	00	090
Lego 360 Memory	MEMORY	00009	00	091
NEC Aska memory	MEMORY	00009	00	7FF
Hitachi Tiny 64	MEMORY	00009	00	800
Hitachi Tiny 80	MEMORY	00009	00	801
Hitachi X memory	MEMORY	00009	00	8FF
M2250 Memory	MEMORY	00009	00	091
M2500 Memory	MEMORY	00009	00	092

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Bus Ports and Bridges	BRIDGE	0000A	xx	xxx
	IOA	0000B	xx	xxx
	BCPORT	0000C	xx	xxx
Phantom PseudoBC				
GSC+ Port	BCPORT	00000	00	504
GSC+ Port	BCPORT	00000	00	505
Dino PCI Bridge	BRIDGE	0000A	00	680
Cujo PCI Bridge	BRIDGE	0000A	00	682
Java BC				
Summit Port	IOA	0000B	00	185
GSC+ Port	BCPORT	0000C	00	503
Hitachi Ghostview BC				
Hitachi Summit Port	IOA	0000B	00	1FF
Hitachi GSC+ Port	BCPORT	0000C	00	57F
U2-IOA BC				
Runway Port	IOA	0000B	10	580
GSC+ Port	BCPORT	0000C	00	501
Uturn-IOA BC				
Runway Port	IOA	0000B	10	581
GSC+ Port	BCPORT	0000C	00	502
NEC-IOS BC				
NEC System Bus Port	IOA	0000B	00	700
HSC Port	BCPORT	0000C	00	506
Cheetah BC				
SMB Port	BCPORT	0000C	00	004
MID_BUS Port	BCPORT	0000C	00	006
Condor BC				
MID_BUS Port	BCPORT	0000C	00	005
HP-PB Port	BCPORT	0000C	00	100
Summit BC				
Summit Port	BCPORT	0000C	00	184
HP-PB Port	BCPORT	0000C	00	101
HP-PB Port (prefetch)	BCPORT	0000C	00	102
GeckoBOA BC				
GSC+ Port	BCPORT	0000C	00	500
HP-PB Port	BCPORT	0000C	00	103
Keyaki BC				
GSC+ Port	BCPORT	0000C	00	507
Keyaki-DX BC				
GSC+ Port	BCPORT	0000C	00	508

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
I/O Modules	xxxxx	xxxxx	xx	xxx
Arrakis MUX	A_DIRECT	0000D	00	004
Dyun Kih MUX	A_DIRECT	0000D	00	005

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Baat KiuH AP/MUX (40299B)	A_DIRECT	0000D	00	006
Dino AP	A_DIRECT	0000D	00	007
Solaris Direct Connect MUX (J2092A)	A_DIRECT	0000D	00	009
Solaris RS-422/423 MUX (J2093A)	A_DIRECT	0000D	00	00A
Solaris RS-422/423 Quadriloops MUX	A_DIRECT	0000D	00	00B
Solaris Modem MUX (J2094A)	A_DIRECT	0000D	00	00C
Twins Direct Connect MUX	A_DIRECT	0000D	00	00D
Twins Modem MUX	A_DIRECT	0000D	00	00E
Nautilus RS-485	A_DIRECT	0000D	00	00F
UltraLight CAP/MUX	A_DIRECT	0000D	00	010
Eole CAP/MUX	A_DIRECT	0000D	00	015
Sahp KiuH AP/MUX	A_DIRECT	0000D	00	024
Sahp KiuH Low AP/MUX	A_DIRECT	0000D	00	034
Sahp Baat KiuH AP/MUX	A_DIRECT	0000D	00	044
Burgundy RS-232	A_DIRECT	0000E	80	004
Silverfox RS-232	A_DIRECT	0000E	80	005
Lego RS-232	A_DIRECT	0000E	80	006
Peacock Graphics	A_DIRECT	0000F	00	004
VLSI CIO	CIO	00010	00	004
Silverfox CIO	CIO	00010	00	005
Emerald CIO	CIO	00010	00	006
Discrete CIO	CIO	00010	00	008
Burgundy HIL	A_DIRECT	00014	80	004
Peacock HIL	A_DIRECT	00014	80	005
Leonardo	A_DIRECT	00015	80	004
HP-PB HRM	A_DIRECT	00016	80	004
HP-PB HRC	A_DIRECT	00017	80	004
Parallel I/O	B_DMA	00018	00	004
Parallel RDB	B_DMA	00019	00	004
Cheetah console	CONSOLE	0001C	00	004
Emerald console	CONSOLE	0001C	00	005
Jason/Anole 64 Null Console	CONSOLE	0001F	00	01A
Jason/Anole 100 Null Console	CONSOLE	0001F	00	01B
MID_BUS PSI	B_DMA	00020	80	004
WAN Family		21 - 2E	xx	xxx
Armyknife Optional X.25	FIO	0002E	80	025
HP-PB Transit PSI (36960A)	B_DMA	0002F	80	004
MID_BUS Verification				
Master	OTHER	00030	00	004
Slave	OTHER	00034	00	004
EDU	OTHER	00038	00	004
Skunk SCSI (28655A)	A_DMA	00039	80	004
KittyHawk CSY Core SCSI	A_DMA	00039	80	005
Diablo SCSI	A_DMA	00039	80	014
Sahp KiuH SCSI	A_DMA	00039	80	024
Sahp KiuH Low SCSI	A_DMA	00039	80	034
Sahp Baat KiuH SCSI	A_DMA	00039	80	044
Skunk Centronics (28655A)	A_DIRECT	0003A	80	004
Sahp KiuH Centronics	A_DIRECT	0003A	80	024

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Sahp Baat Kiuh Centronics	A_DIRECT	0003A	80	044
Wizard SCSI	A_DMA	0003B	80	004
KittyHawk CSY Core FW-SCSI	A_DMA	0003B	80	005
Symbios EPIC FW-SCSI	A_DMA	0003B	80	006
HP-PB Shazam HPIB (28650A)	A_DMA	00040	80	004
Burgundy HPIB	A_DMA	00040	80	005
HP-PB HP-FL	A_DMA	00041	80	004
HP-PB LoQuix HPIB (28650B)	A_DMA	00042	80	004
HP-PB Crypt LoQuix	A_DMA	00043	80	004
HP-PB Shazam GPIO (28651A)	A_DMA	00044	80	004
HP-PB LoQuix GPIO	A_DMA	00045	80	004
2-Port X.25 NIO_ACC (AMSO)	A_DMA	00046	80	004
4-Port X.25 NIO_ACC (AMSO)	A_DMA	00047	80	004
Spectrograph				
LGB FB	OTHER	00048	00	004
LGB Control	OTHER	00049	00	004
Nimbus				
LGB FB	A_DMA	0004A	80	004
LGB Control	A_DMA	0004B	80	004
Martian RTI (AMSO)	A_DMA	0004C	80	004
ACC Mux (AMSO)	A_DMA	0004D	80	004
AT&T DataKit (AMSO)	A_DIRECT	0004E	80	004
8-Port X.25 EISA-ACC (AMSO)	FIO	0004F	xx	004
Lanbrusca 802.3 (36967A)	A_DMA	00050	80	004
HP-PB Transit 802.3	B_DMA	00051	80	008
Miura LAN/Console (J2146A)	B_DMA	00052	80	004
LAN Family		53 - 57	xx	xxx
HP-PB LoQuix FDDI	A_DMA	00056	80	004
HP-PB LoQuix FDDI (28670A)	A_DMA	00057	80	004
HP-PB Transit 802.4	B_DMA	00058	80	008
LAN Family		59 - 5F	xx	xxx
KittyHawk CSY Core LAN/Console	B_DMA	00060	80	005
Diablo LAN/Console	B_DMA	00060	80	014
Countach LAN/Console	B_DMA	00060	80	054
Cobra Core BA	BA	00070	xx	004
Coral Core BA	BA	00070	xx	005
Bushmaster Core BA	BA	00070	xx	006
Scorpio Core BA	BA	00070	xx	007
Flounder Core BA	BA	00070	xx	008
Outfield Core BA	BA	00070	xx	009
CorallI Core BA	BA	00070	xx	00A
Scorpio Jr. Core BA	BA	00070	xx	00B
Strider-50 Core BA	BA	00070	xx	00C
Strider-33 Core BA	BA	00070	xx	00D
Trailways-50 Core BA	BA	00070	xx	00E
Trailways-33 Core BA	BA	00070	xx	00F
Pace Core BA	BA	00070	xx	010
Sidewinder Core BA	BA	00070	xx	011
Scorpio Sr. Core BA	BA	00070	xx	019

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Scorpio 100 Core BA	BA	00070	xx	020
Spectra 50 Core BA	BA	00070	xx	021
Spectra 75 Core BA	BA	00070	xx	022
Spectra 100 Core BA	BA	00070	xx	023
Fast Pace Core BA	BA	00070	xx	024
CorallI Jaguar Core BA	BA	00070	xx	026
Cobra Core SCSI	FIO	00071	xx	004
Coral Core SCSI	FIO	00071	xx	005
Bushmaster Core SCSI	FIO	00071	xx	006
Scorpio Core SCSI	FIO	00071	xx	007
Flounder Core SCSI	FIO	00071	xx	008
Outfield Core SCSI	FIO	00071	xx	009
CorallI Core SCSI	FIO	00071	xx	00A
Scorpio Jr. Core SCSI	FIO	00071	xx	00B
Strider-50 Core SCSI	FIO	00071	xx	00C
Strider-33 Core SCSI	FIO	00071	xx	00D
Trailways-50 Core SCSI	FIO	00071	xx	00E
Trailways-33 Core SCSI	FIO	00071	xx	00F
Pace Core SCSI	FIO	00071	xx	010
Sidewinder Core SCSI	FIO	00071	xx	011
Scorpio Sr. Core SCSI	FIO	00071	xx	019
Scorpio 100 Core SCSI	FIO	00071	xx	020
Spectra 50 Core SCSI	FIO	00071	xx	021
Spectra 75 Core SCSI	FIO	00071	xx	022
Spectra 100 Core SCSI	FIO	00071	xx	023
Fast Pace Core SCSI	FIO	00071	xx	024
CorallI Jaguar Core SCSI	FIO	00071	xx	026
Cobra Core LAN (802.3)	FIO	00072	xx	004
Coral Core LAN (802.3)	FIO	00072	xx	005
Bushmaster Core LAN (802.3)	FIO	00072	xx	006
Scorpio Core LAN (802.3)	FIO	00072	xx	007
Flounder Core LAN (802.3)	FIO	00072	xx	008
Outfield Core LAN (802.3)	FIO	00072	xx	009
CorallI Core LAN (802.3)	FIO	00072	xx	00A
Scorpio Jr. Core LAN (802.3)	FIO	00072	xx	00B
Strider-50 Core LAN (802.3)	FIO	00072	xx	00C
Strider-33 Core LAN (802.3)	FIO	00072	xx	00D
Trailways-50 Core LAN (802.3)	FIO	00072	xx	00E
Trailways-33 Core LAN (802.3)	FIO	00072	xx	00F
Pace Core Lan (802.3)	FIO	00072	xx	010
Sidewinder Core Lan (802.3)	FIO	00072	xx	011
Scorpio Sr. Core LAN (802.3)	FIO	00072	xx	019
Scorpio 100 Core LAN (802.3)	FIO	00072	xx	020
Spectra 50 Core LAN (802.3)	FIO	00072	xx	021
Spectra 75 Core LAN (802.3)	FIO	00072	xx	022
Spectra 100 Core LAN (802.3)	FIO	00072	xx	023
Fast Pace Core Lan (802.3)	FIO	00072	xx	024
CorallI Jaguar Core LAN (802.3)	FIO	00072	xx	026
Cobra Core HIL	FIO	00073	xx	004

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Coral Core HIL	FIO	00073	xx	005
Bushmaster Core HIL	FIO	00073	xx	006
Scorpio Core HIL	FIO	00073	xx	007
Flounder Core HIL	FIO	00073	xx	008
Outfield Core HIL	FIO	00073	xx	009
CoralII Core HIL	FIO	00073	xx	00A
Scorpio Jr. Core HIL	FIO	00073	xx	00B
Strider-50 Core HIL	FIO	00073	xx	00C
Strider-33 Core HIL	FIO	00073	xx	00D
Trailways-50 Core HIL	FIO	00073	xx	00E
Trailways-33 Core HIL	FIO	00073	xx	00F
Pace Core HIL	FIO	00073	xx	010
SuperPace Wax HIL	FIO	00073	cc	011
Mirage Jr. Wax HIL	FIO	00073	xx	012
Mirage 100 Wax HIL	FIO	00073	xx	013
Electra Wax HIL	FIO	00073	xx	014
Raven Backplane Wax HIL	FIO	00073	xx	017
Scorpio Sr. Core HIL	FIO	00073	xx	019
Raven T' Wax HIL	FIO	00073	xx	01E
SkyHawk 100/120 Wax HIL	FIO	00073	xx	01F
Scorpio 100 Core HIL	FIO	00073	xx	020
Spectra 50 Core HIL	FIO	00073	xx	021
Spectra 75 Core HIL	FIO	00073	xx	022
Spectra 100 Core HIL	FIO	00073	xx	023
Fast Pace Core HIL	FIO	00073	xx	024
CoralII Jaguar Core HIL	FIO	00073	xx	026
Mirage 80 Wax HIL	FIO	00073	xx	02B
Mirage 100+ Wax HIL	FIO	00073	xx	02C
Merlin+ Wax HIL	FIO	00073	xx	03A
Merlin 132 Wax HIL	FIO	00073	xx	040
Merlin 160 Wax HIL	FIO	00073	xx	041
Merlin 132/160 Wax HIL	FIO	00073	xx	043
Raven+ Hi Power Backplane w/EISA Wax HIL	FIO	00073	xx	052
Raven+ Hi Power Backplane wo/EISA Wax HIL	FIO	00073	xx	053
Raven+ Lo Power Backplane w/EISA Wax HIL	FIO	00073	xx	054
Raven+ Lo Power Backplane wo/EISA Wax HIL	FIO	00073	xx	055
FireHawk 200 Wax HIL	FIO	00073	xx	059
Raven+ L2 Backplane w/EISA Wax HIL	FIO	00073	xx	05A
Raven+ L2 Backplane wo/EISA Wax HIL	FIO	00073	xx	05B
SummitHawk Wax HIL	FIO	00073	xx	05D
Hitachi Tiny 64 Wax HIL	FIO	00073	xx	800
Hitachi Tiny 80 Wax HIL	FIO	00073	xx	801
Cobra Core Centronics	FIO	00074	xx	004
Coral Core Centronics	FIO	00074	xx	005
Bushmaster Core Centronics	FIO	00074	xx	006
Scorpio Core Centronics	FIO	00074	xx	007
Flounder Core Centronics	FIO	00074	xx	008
Outfield Core Centronics	FIO	00074	xx	009
CoralII Core Centronics	FIO	00074	xx	00A

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Scorpio Jr. Core Centronics	FIO	00074	xx	00B
Strider-50 Core Centronics	FIO	00074	xx	00C
Strider-33 Core Centronics	FIO	00074	xx	00D
Trailways-50 Core Centronics	FIO	00074	xx	00E
Trailways-33 Core Centronics	FIO	00074	xx	00F
Pace Core Centronics	FIO	00074	xx	010
Sidewinder Core Centronics	FIO	00074	xx	011
KittyHawk GSY Core Centronics	FIO	00074	xx	015
Gecko Core Centronics	FIO	00074	xx	016
Scorpio Sr. Core Centronics	FIO	00074	xx	019
Anole 64 Core Centronics	FIO	00074	xx	01A
Anole 100 Core Centronics	FIO	00074	xx	01B
Gecko 80 Core Centronics	FIO	00074	xx	01C
Gecko 100 Core Centronics	FIO	00074	xx	01D
SkyHawk 100/120 Core Centronics	FIO	00074	xx	01F
Scorpio 100 Core Centronics	FIO	00074	xx	020
Spectra 50 Core Centronics	FIO	00074	xx	021
Spectra 75 Core Centronics	FIO	00074	xx	022
Spectra 100 Core Centronics	FIO	00074	xx	023
Fast Pace Core Centronics	FIO	00074	xx	024
CorallI Jaguar Core Centronics	FIO	00074	xx	026
Piranha 100 Core Centronics	FIO	00074	xx	027
Mirage Jr Core Centronics	FIO	00074	xx	028
Mirage Core Centronics	FIO	00074	xx	029
Electra Core Centronics	FIO	00074	xx	02A
Mirage 80 Core Centronics	FIO	00074	xx	02B
Mirage 100+ Core Centronics	FIO	00074	xx	02C
UL 350 Core Centronics	FIO	00074	xx	02E
UL 550 Core Centronics	FIO	00074	xx	02F
Raven T' Core Centronics	FIO	00074	xx	032
Anole T Core Centronics	FIO	00074	xx	033
SAIC L-80 Core Centronics	FIO	00074	xx	034
PCX-L2 712/132 Core Centronics	FIO	00074	xx	035
PCX-L2 712/160 Core Centronics	FIO	00074	xx	036
Raven U/L2 Core Centronics	FIO	00074	xx	03B
Merlin 132 Core Centronics	FIO	00074	xx	03C
Merlin 160 Core Centronics	FIO	00074	xx	03D
Merlin+ 132 Core Centronics	FIO	00074	xx	03E
Merlin+ 180 Core Centronics	FIO	00074	xx	03F
Mohawk Core Centronics	FIO	00074	xx	044
Rocky1 Core Centronics	FIO	00074	xx	045
Rocky2 120 Core Centronics	FIO	00074	xx	046
Rocky2 150 Core Centronics	FIO	00074	xx	047
Anole L2 132 Core Centronics	FIO	00074	xx	04B
Anole L2 165 Core Centronics	FIO	00074	xx	04D
Merlin Jr 132 Core Centronics	FIO	00074	xx	050
Firehawk Core Centronics	FIO	00074	xx	051
Raven+ wSE FWSCSI Core Centronics	FIO	00074	xx	056
Raven+ wDiffFWSCSI Core Centronics	FIO	00074	xx	057

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
FireHawk 200 Core Centronics	FIO	00074	xx	058
SummitHawk 230 Core Centronics	FIO	00074	xx	05C
Hitachi Tiny 64 Core Centronics	FIO	00074	xx	800
Hitachi Tiny 80 Core Centronics	FIO	00074	xx	801
Cobra Core RS-232	FIO	00075	xx	004
Coral Core RS-232	FIO	00075	xx	005
Bushmaster Core RS-232	FIO	00075	xx	006
Scorpio Core RS-232	FIO	00075	xx	007
Flounder Core RS-232	FIO	00075	xx	008
Outfield Core RS-232	FIO	00075	xx	009
Corall Core RS-232	FIO	00075	xx	00A
Scorpio Jr. Core RS-232	FIO	00075	xx	00B
Strider-50 Core RS-232	FIO	00075	xx	00C
Strider-33 Core RS-232	FIO	00075	xx	00D
Trailways-50 Core RS-232	FIO	00075	xx	00E
Trailways-33 Core RS-232	FIO	00075	xx	00F
Pace Core RS-232	FIO	00075	xx	010
Sidewinder Core RS-232	FIO	00075	xx	011
Scorpio Sr. Core RS-232	FIO	00075	xx	019
Scorpio 100 Core RS-232	FIO	00075	xx	020
Spectra 50 Core RS-232	FIO	00075	xx	021
Spectra 75 Core RS-232	FIO	00075	xx	022
Spectra 100 Core RS-232	FIO	00075	xx	023
Fast Pace Core RS-232	FIO	00075	xx	024
Corall Jaguar Core RS-232	FIO	00075	xx	026
Cobra EISA BA	BA	00076	xx	004
Coral EISA BA	BA	00076	xx	005
Scorpio EISA BA	BA	00076	xx	007
Corall EISA BA	BA	00076	xx	00A
Scorpio Jr. EISA BA	BA	00076	xx	00B
Strider-50 Core EISA	BA	00076	xx	00C
Strider-33 Core EISA	BA	00076	xx	00D
Trailways-50 Core EISA	BA	00076	xx	00E
Trailways-33 Core EISA	BA	00076	xx	00F
Pace Core EISA	BA	00076	xx	010
Scorpio Sr. EISA BA	BA	00076	xx	019
Scorpio 100 EISA BA	BA	00076	xx	020
Spectra 50 EISA BA	BA	00076	xx	021
Spectra 75 EISA BA	BA	00076	xx	022
Spectra 100 EISA BA	BA	00076	xx	023
Corall Jaguar EISA BA	BA	00076	xx	026
Coral SGC Graphics	FIO	00077	xx	004
Hyperdrive Optional Graphics	FIO	00077	xx	005
Stinger Optional Graphics	FIO	00077	xx	006
Scorpio Builtin Graphics	FIO	00077	xx	007
Anole Hyperdrive Optional Graphics	FIO	00077	xx	008
Thunder II graphics EISA form	FIO	00077	xx	009
Thunder II graphics GSA form	FIO	00077	xx	00A
Scorpio Jr Builtin Graphics	FIO	00077	xx	00B

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Strider-50 SSC Graphics	FIO	00077	xx	00C
Strider-33 SSC Graphics	FIO	00077	xx	00D
Trailways-50 SSC Graphics	FIO	00077	xx	00E
Trailways-33 SSC Graphics	FIO	00077	xx	00F
Pace SGC Graphics	FIO	00077	xx	010
Mohawk Opt. 2D Graphics (Kid)	FIO	00077	xx	011
Raven Opt. 2D Graphics (Goat)	FIO	00077	xx	012
Lego 24 SCG Graphics	FIO	00077	xx	016
Lego 24Z SCG Graphics	FIO	00077	xx	017
Lego 48Z SCG Graphics	FIO	00077	xx	018
Scorpio Sr Builtin Graphics	FIO	00077	xx	019
Scorpio 100 Builtin Graphics	FIO	00077	xx	020
Spectra 50 Builtin Graphics	FIO	00077	xx	021
Spectra 75 Builtin Graphics	FIO	00077	xx	022
Spectra 100 Builtin Graphics	FIO	00077	xx	023
Fast Pace SGC Graphics	FIO	00077	xx	024
Pace VME BA	BA	00078	xx	010
Sidewinder VME BA	BA	00078	xx	011
Anole 64 VME BA	BA	00078	xx	01A
Anole 100 VME BA	BA	00078	xx	01B
Fast Pace VME BA	BA	00078	xx	024
Anole T VME BA	BA	00078	xx	034
Anole L2 132 BME BA	BA	00078	xx	04A
Anole L2 165 VME BA	BA	00078	xx	04C
Bushmaster Audio	FIO	0007A	xx	006
Flounder Audio	FIO	0007A	xx	008
UL Optional Audio	FIO	0007B	xx	004
Scorpio Audio	FIO	0007B	xx	007
Scorpio Jr. Audio	FIO	0007B	xx	00B
Strider-50 Audio	FIO	0007B	xx	00C
Strider-33 Audio	FIO	0007B	xx	00D
Trailways-50 Audio	FIO	0007B	xx	00E
Trailways-33 Audio	FIO	0007B	xx	00F
Gecko Audio	FIO	0007B	xx	016
Scorpio Sr. Audio	FIO	0007B	xx	019
Anole 64 Audio	FIO	0007B	xx	01A
Anole 100 Audio	FIO	0007B	xx	01B
Gecko 80 Audio	FIO	0007B	xx	01C
Gecko 100 Audio	FIO	0007B	xx	01D
SkyHawk 100/120 Audio	FIO	0007B	xx	01F
Scorpio 100 Audio	FIO	0007B	xx	020
Spectra 50 Audio	FIO	0007B	xx	021
Spectra 75 Audio	FIO	0007B	xx	022
Spectra 100 Audio	FIO	0007B	xx	023
Mirage Jr Audio	FIO	0007B	xx	028
Mirage Audio	FIO	0007B	xx	029
Electra Audio	FIO	0007B	xx	02A
Mirage 80 Audio	FIO	0007B	xx	02B
Mirage 100+ Audio	FIO	0007B	xx	02C

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Raven T' Audio	FIO	0007B	xx	032
SAIC L-80 Audio	FIO	0007B	xx	034
PCX-L2 712/132 Core Audio	FIO	0007B	xx	035
PCX-L2 712/160 Core Audio	FIO	0007B	xx	036
Raven U/L2 Core Audio	FIO	0007B	xx	03B
Merlin 132 Core Audio	FIO	0007B	xx	03C
Merlin 160 Core Audio	FIO	0007B	xx	03D
Merlin+ 132 Core Audio	FIO	0007B	xx	03E
Merlin+ 180 Core Audio	FIO	0007B	xx	03F
Mohawk Core Audio	FIO	0007B	xx	044
Rocky2 120 Core Audio	FIO	0007B	xx	046
Rocky2 150 Core Audio	FIO	0007B	xx	047
Anole L2 132 Core Audio	FIO	0007B	xx	04B
Anole L2 165 Core Audio	FIO	0007B	xx	04D
Kiji L2 132 Core Audio	FIO	0007B	xx	04E
Merlin Jr 132 Core Audio	FIO	0007B	xx	050
Firehawk Audio	FIO	0007B	xx	051
Raven+ w SE FWSCSU Core Audio	FIO	0007B	xx	056
Raven+ w DiffFWSCSU Core Audio	FIO	0007B	xx	057
FireHawk 200 Audio	FIO	0007B	xx	058
SummitHawk 230 Core Audio	FIO	0007B	xx	05C
Hitachi Tiny 64 Audio	FIO	0007B	xx	800
Hitachi Tiny 80 Audio	FIO	0007B	xx	801
Outfield FW SCSI	FIO	0007C	xx	009
Corall FW SCSI	FIO	0007C	xx	00A
Corall Jaguar FW SCSI	FIO	0007C	xx	026
Outfield FDDI	FIO	0007D	xx	009
Corall FDDI	FIO	0007D	xx	00A
Corall Jaguar FDDI	FIO	0007D	xx	026
Pace Audio	FIO	0007E	xx	010
Fast Pace Audio	FIO	0007E	xx	024
Outfield Audio	FIO	0007F	xx	009
Corall Audio	FIO	0007F	xx	00A
Corall Jaguar Audio	FIO	0007F	xx	026
Pace Core HPIB	FIO	00080	xx	010
Fast Pace Core HPIB	FIO	00080	xx	024
WB-96 Core BA	BA	00081	xx	011
Orville UX Core BA	BA	00081	xx	012
Wilbur UX Core BA	BA	00081	xx	013
WB-80 Core BA	BA	00081	xx	014
KittyHawk GSY Core BA	BA	00081	xx	015
Gecko Core BA	BA	00081	xx	016
Gecko Optional BA	BA	00081	xx	018
Anole 64 Core BA	BA	00081	xx	01A
Anole 100 Core BA	BA	00081	xx	01B
Gecko 80 Core BA	BA	00081	xx	01C
Gecko 100 Core BA	BA	00081	xx	01D
SkyHawk 100/120 Core BA	BA	00081	xx	01F
Piranha 100 Core BA	BA	00081	xx	027

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Mirage Jr Core BA	BA	00081	xx	028
Mirage Core BA	BA	00081	xx	029
Electra Core BA	BA	00081	xx	02A
Mirage 80 Core BA	BA	00081	xx	02B
Mirage 100+ Core BA	BA	00081	xx	02C
UL 350 Lasi Core BA	BA	00081	xx	02E
UL 550 Lasi Core BA	BA	00081	xx	02F
Raven T' Core BA	BA	00081	xx	032
Anole T Core BA	BA	00081	xx	033
SAIC L-80 Core BA	BA	00081	xx	034
PCX-L2 712/132 Core BA	BA	00081	xx	035
PCX-L2 712/160 Core BA	BA	00081	xx	036
Raven U/L2 Core BA	BA	00081	xx	03B
Merlin 132 Core BA	BA	00081	xx	03C
Merlin 160 Core BA	BA	00081	xx	03D
Merlin+ 132 Core BA	BA	00081	xx	03E
Merlin+ 180 Core BA	BA	00081	xx	03F
Mohawk Core BA	BA	00081	xx	044
Rocky1 Core BA	BA	00081	xx	045
Rocky2 120 Core BA	BA	00081	xx	046
Rocky2 150 Core BA	BA	00081	xx	047
Anole L2 132 Core BA	BA	00081	xx	04B
Anole L2 165 Core BA	BA	00081	xx	04D
Kiji L2 132 Core BA	BA	00081	xx	04E
Merlin Jr 132 Core BA	BA	00081	xx	050
Firehawk Core BA	BA	00081	xx	051
Raven+ w SE FWSCSI Core BA	BA	00081	xx	056
Raven+ w DiffFWSCSI Core BA	BA	00081	xx	057
FireHawk 200 Core BA	BA	00081	xx	058
SummitHawk 230 Core BA	BA	00081	xx	05C
Staccato 132 Core BA	BA	00081	xx	05E
Staccato 180 Core BA	BA	00081	xx	05E
Hitachi Tiny 64 Core BA	BA	00081	xx	800
Hitachi Tiny 80 Core BA	BA	00081	xx	801
Gecko Core SCSI	FIO	00082	xx	016
Anole 64 Core SCSI	FIO	00082	xx	01A
Anole 100 Core SCSI	FIO	00082	xx	01B
Gecko 80 Core SCSI	FIO	00082	xx	01C
Gecko 100 Core SCSI	FIO	00082	xx	01D
SkyHawk 100/120 Core SCSI	FIO	00082	xx	01F
Piranha 100 Core SCSI	FIO	00082	xx	027
Mirage Jr Core SCSI	FIO	00082	xx	028
Mirage Core SCSI	FIO	00082	xx	029
Electra Core SCSI	FIO	00082	xx	02A
Mirage 80 Core SCSI	FIO	00082	xx	02B
Mirage 100+ Core SCSI	FIO	00082	xx	02C
UL 350 Core SCSI	FIO	00082	xx	02E
UL 550 Core SCSI	FIO	00082	xx	02F
Raven T' Core SCSI	FIO	00082	xx	032

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Anole T Core SCSI	FIO	00082	xx	033
SAIC L-80 Core SCSI	FIO	00082	xx	034
PCX-L2 712/132 Core SCSI	FIO	00082	xx	035
PCX-L2 712/160 Core SCSI	FIO	00082	xx	036
Raven U/L2 Core SCSI	FIO	00082	xx	03B
Merlin 132 Core SCSI	FIO	00082	xx	03C
Merlin 160 Core SCSI	FIO	00082	xx	03D
Merlin+ 132 Core SCSI	FIO	00082	xx	03E
Merlin+ 180 Core SCSI	FIO	00082	xx	03F
Mohawk Core SCSI	FIO	00082	xx	044
Rocky1 Core SCSI	FIO	00082	xx	045
Rocky2 120 Core SCSI	FIO	00082	xx	046
Rocky2 150 Core SCSI	FIO	00082	xx	047
Anole L2 132 Core SCSI	FIO	00082	xx	04B
Anole L2 165 Core SCSI	FIO	00082	xx	04D
Kiji L2 132 Core SCSI	FIO	00082	xx	04E
Merlin Jr 132 Core SCSI	FIO	00082	xx	050
Firehawk Core SCSI	FIO	00082	xx	051
Raven+ w SE FWSCSI Core SCSI	FIO	00082	xx	056
Raven+ w DiffFWSCSI Core SCSI	FIO	00082	xx	057
FireHawk 200 Core SCSI	FIO	00082	xx	058
SummitHawk 230 Core SCSI	FIO	00082	xx	05C
Staccato 132 Core SCSI	FIO	00082	xx	05E
Staccato 180 Core SCSI	FIO	00082	xx	05F
Hitachi Tiny 64 Core SCSI	FIO	00082	xx	800
Hitachi Tiny 80 Core SCSI	FIO	00082	xx	801
Gecko Core PC Floppy	FIO	00083	xx	016
Gecko 80 Core PC Floppy	FIO	00083	xx	01C
Gecko 100 Core PC Floppy	FIO	00083	xx	01D
Firehawk Core PC Floppy	FIO	00083	xx	051
FireHawk 200 Core PC Floppy	FIO	00083	xx	058
Piranha 100 Core PC Floppy	FIO	00083	xx	027
Mirage Jr Core PC Floppy	FIO	00083	xx	028
Mirage Core PC Floppy	FIO	00083	xx	029
Electra Core PC Floppy	FIO	00083	xx	02A
Mirage 80 Core PC Floppy	FIO	00083	xx	02B
Mirage 100+ Core PC Floppy	FIO	00083	xx	02C
UL 350 Core PC Floppy	FIO	00083	xx	02E
UL 550 Core PC Floppy	FIO	00083	xx	02F
Raven T' Core PC Floppy	FIO	00083	xx	032
SAIC L-80 Core PC Floppy	FIO	00083	xx	034
PCX-L2 712/132 Core Floppy	FIO	00083	xx	035
PCX-L2 712/160 Core Floppy	FIO	00083	xx	036
Raven U/L2 Core PC Floppy	FIO	00083	xx	03B
Merlin 132 Core PC Floppy	FIO	00083	xx	03C
Merlin 160 Core PC Floppy	FIO	00083	xx	03D
Merlin+ 132 Core PC Floppy	FIO	00083	xx	03E
Merlin+ 180 Core PC Floppy	FIO	00083	xx	03F
Rocky1 Core PC Floppy	FIO	00083	xx	045

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Rocky2 120 Core PC Floopy	FIO	00083	xx	046
Rocky2 150 Core PC Floopy	FIO	00083	xx	047
Kiji L2 132 Core PC Floopy	FIO	00083	xx	04E
Merlin Jr 132 Core PC Floopy	FIO	00083	xx	050
Raven+ w SE FWSCSI Core PC Floopy	FIO	00083	xx	056
Raven+ w DiffFWSCSI Core PC Floopy	FIO	00083	xx	057
Hitachi Tiny 64 Core PC Floopy	FIO	00083	xx	800
Hitachi Tiny 80 Core PC Floopy	FIO	00083	xx	801
KittyHawk GSY Core PC Keyboard	FIO	00084	xx	015
Gecko Core PC Keyboard	FIO	00084	xx	016
Gecko Optional PC Keyboard	FIO	00084	xx	018
Anole 64 Core PC Keyboard	FIO	00084	xx	01A
Anole 100 Core PC Keyboard	FIO	00084	xx	01B
Gecko 80 Core PC Keyboard	FIO	00084	xx	01C
Gecko 100 Core PC Keyboard	FIO	00084	xx	01D
SkyHawk 100/120 Core PC Keyboard	FIO	00084	xx	01F
Piranha 100 Core PC Keyboard	FIO	00084	xx	027
Mirage Jr Core PC Keyboard	FIO	00084	xx	028
Mirage Core PC Keyboard	FIO	00084	xx	029
Electra Core PC Keyboard	FIO	00084	xx	02A
Mirage 80 Core PC Keyboard	FIO	00084	xx	02B
Mirage 100+ Core PC Keyboard	FIO	00084	xx	02C
UL 350 Core PC Keyboard	FIO	00084	xx	02E
UL 550 Core PC Keyboard	FIO	00084	xx	02F
Raven T' Core PC Keyboard	FIO	00084	xx	032
Anole T Core PC Keyboard	FIO	00084	xx	033
SAIC L-80 Core PC Keyboard	FIO	00084	xx	034
PCX-L2 712/132 Core Keyboard	FIO	00084	xx	035
PCX-L2 712/160 Core Keyboard	FIO	00084	xx	036
Raven U/L2 Core PC Keyboard	FIO	00084	xx	03B
Merlin 132 Core PC Keyboard	FIO	00084	xx	03C
Merlin 160 Core PC Keyboard	FIO	00084	xx	03D
Merlin+ 132 Core PC Keyboard	FIO	00084	xx	03E
Merlin+ 180 Core PC Keyboard	FIO	00084	xx	03F
Mohawk Core PC Keyboard	FIO	00084	xx	044
Rocky1 Core PC Keyboard	FIO	00084	xx	045
Rocky2 120 Core PC Keyboard	FIO	00084	xx	046
Rocky2 150 Core PC Keyboard	FIO	00084	xx	047
Rocky2 120 Dino PC Keyboard	FIO	00084	xx	048
Rocky2 150 Dino PC Keyboard	FIO	00084	xx	049
Anole L2 132 Core PC Keyboard	FIO	00084	xx	04B
Anole L2 165 Core PC Keyboard	FIO	00084	xx	04D
Kiji L2 132 Core PC Keyboard	FIO	00084	xx	04E
Merlin Jr 132 Core PC Keyboard	FIO	00084	xx	050
Firehawk Core PC Keyboard	FIO	00084	xx	051
Raven+ w SE FWSCSI Core PC Keyboard	FIO	00084	xx	056
Raven+ w DiffFWSCSI Core PC Keyboard	FIO	00084	xx	057
FireHawk 200 Core PC Keyboard	FIO	00084	xx	058
SummitHawk 230 Core PC Keyboard	FIO	00084	xx	05C

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Hitachi Tiny 64 Core PC Keyboard	FIO	00084	xx	800
Hitachi Tiny 80 Core PC Keyboard	FIO	00084	xx	801
Solo GSC Optional Graphics	FIO	00085	xx	004
Duet GSC Optional Graphics	FIO	00085	xx	005
Anole Artist Optional Graphics	FIO	00085	xx	008
Mirage 80 GSC Builtin Graphics	FIO	00085	xx	010
Mirage 100+ GSC Builtin Graphics	FIO	00085	xx	011
Mirage Jr GSC Builtin Graphics	FIO	00085	xx	012
Mirage GSC Builtin Graphics	FIO	00085	xx	013
Electra GSC Builtin Graphics	FIO	00085	xx	014
Gecko GSC Core Graphics	FIO	00085	xx	016
Gecko GSC Optional Graphics	FIO	00085	xx	017
Anole 64 Artist Builtin Graphics	FIO	00085	xx	01A
Anole 100 Artist Builtin Graphics	FIO	00085	xx	01B
Gecko 80 GSC Core Graphics	FIO	00085	xx	01C
Gecko 100 GSC Core Graphics	FIO	00085	xx	01D
Raven T' GSC Core Graphics	FIO	00085	xx	032
Anole T Artist Builtin Graphics	FIO	00085	xx	033
SAIC L-80 GSC Core Graphics	FIO	00085	xx	034
PCX-L2 712/132 Core Graphics	FIO	00085	xx	035
PCX-L2 712/160 Core Graphics	FIO	00085	xx	036
Raven U/L2 Core Graphics	FIO	00085	xx	03B
Merlin 132 Core Graphics	FIO	00085	xx	03C
Merlin 160 Core Graphics	FIO	00085	xx	03D
Merlin+ 132 Core Graphics	FIO	00085	xx	03E
Merlin+ 180 Core Graphics	FIO	00085	xx	03F
Rocky1 Core Graphics	FIO	00085	xx	045
Rocky2 120 Core Graphics	FIO	00085	xx	046
Rocky2 150 Core Graphics	FIO	00085	xx	047
Anole L2 132 Core Graphics	FIO	00085	xx	04B
Anole L2 165 Core Graphics	FIO	00085	xx	04D
Kiji L2 132 Core Graphics	FIO	00085	xx	04E
Merlin Jr 132 Core Graphics	FIO	00085	xx	050
Raven+ w SE FWSCSI Core Graphics	FIO	00085	xx	056
Raven+ w Diff FWSCSI Core Graphics	FIO	00085	xx	057
Hitachi Tiny 64 Core Graphics	FIO	00085	xx	800
Hitachi Tiny 80 Core Graphics	FIO	00085	xx	801
GSC IBM Token Ring	FIO	00086	xx	004
Gecko Optional ISDN	FIO	00087	xx	015
Gecko Core ISDN	FIO	00087	xx	016
Gecko 80 Core ISDN	FIO	00087	xx	01C
Gecko 100 Core ISDN	FIO	00087	xx	01D
Pace VME Networking	FIO	00088	xx	010
Sidewinder VME Networking	FIO	00088	xx	011
Anole 64 VME Networking	FIO	00088	xx	01A
Anole 100 VME Networking	FIO	00088	xx	01B
Fast Pace VME Networking	FIO	00088	xx	024
Anole T VME Networking	FIO	00088	xx	034
Anole L2 132 VME Networking	FIO	00088	xx	04A

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Anole L2 165 VME Networking	FIO	00088	xx	04C
Barracuda Add-on FW-SCSI	A_DMA	00089	80	012
Bluefish Add-on FW-SCSI	A_DMA	00089	80	013
Shrike Add-on FW-SCSI	A_DMA	00089	80	014
KittyHawk GSY Core FW-SCSI	A_DMA	00089	80	015
Shrike Jade Add-on FW-SCSI (A3644A)	A_DMA	00089	80	017
SkyHawk 100/120 FW-SCSI	A_DMA	00089	80	01F
Piranha 100 FW-SCSI	A_DMA	00089	80	027
Raven T' Core FW-SCSI	A_DMA	00089	80	032
Raven U/L2 Core FW-SCSI	FIO	00089	xx	03B
Mohawk Core FW-SCSI	A_DMA	00089	80	044
Firehawk FW-SCSI	A_DMA	00089	80	051
FireHawk 200 FW-SCSI	A_DMA	00089	80	058
SummitHawk 230 Ultra-SCSI	A_DMA	00089	80	05C
WB-96 Core Lan (802.3)	FIO	0008A	xx	011
Orville Core Lan (802.3)	FIO	0008A	xx	012
Wilbur Core Lan (802.3)	FIO	0008A	xx	013
WB-80 Core Lan (802.3)	FIO	0008A	xx	014
KittyHawk GSY Core Lan (802.3)	FIO	0008A	xx	015
Gecko Core Lan (802.3)	FIO	0008A	xx	016
Gecko Optional Lan (802.3)	FIO	0008A	xx	018
Anole 64 Core Lan (802.3)	FIO	0008A	xx	01A
Anole 100 Core Lan (802.3)	FIO	0008A	xx	01B
Gecko 80 Core Lan (802.3)	FIO	0008A	xx	01C
Gecko 100 Core Lan (802.3)	FIO	0008A	xx	01D
SkyHawk 100/120 Core LAN (802.3)	FIO	0008A	xx	01F
Piranha 100 Core LAN (802.3)	FIO	0008A	xx	027
Mirage Jr Core LAN (802.3)	FIO	0008A	xx	028
Mirage Core LAN (802.3)	FIO	0008A	xx	029
Electra Core LAN (802.3)	FIO	0008A	xx	02A
Mirage 80 Core LAN (802.3)	FIO	0008A	xx	02B
Mirage 100+ Core LAN (802.3)	FIO	0008A	xx	02C
UL 350 Core LAN (802.3)	FIO	0008A	xx	02E
UL 350 Core LAN (802.3)	FIO	0008A	xx	02F
Raven T' Core LAN (802.3)	FIO	0008A	xx	032
Anole T Core Lan (802.3)	FIO	0008A	xx	033
SAIC L-80 Core Lan (802.3)	FIO	0008A	xx	034
PCX-L2 712/132 Core Lan (802.3)	FIO	0008A	xx	035
PCX-L2 712/160 Core Lan (802.3)	FIO	0008A	xx	036
Raven U/L2 Core Lan (802.3)	FIO	0008A	xx	03B
Merlin 132 Core Lan (802.3)	FIO	0008A	xx	03C
Merlin 160 Core Lan (802.3)	FIO	0008A	xx	03D
Mohawk Core Lan (802.3)	FIO	0008A	xx	044
Rocky1 Core LAN (802.3)	FIO	0008A	xx	045
Rocky2 120 Core LAN (802.3)	FIO	0008A	xx	046
Rocky2 150 Core LAN (802.3)	FIO	0008A	xx	047
Anole L2 132 Core LAN (802.3)	FIO	0008A	xx	04B
Anole L2 165 Core LAN (802.3)	FIO	0008A	xx	04D
Kiji L2 132 Core LAN (802.3)	FIO	0008A	xx	04E

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Merlin Jr 132 Core Lan (802.3)	FIO	0008A	xx	050
FireHawk 200 Core LAN (802.3)	FIO	0008A	xx	058
Hitachi Tiny 64 Core Lan (802.3)	FIO	0008A	xx	800
Hitachi Tiny 80 Core Lan (802.3)	FIO	0008A	xx	801
Anole Optional PCMCIA BA	BA	0008B	xx	004
SkyHawk 100/120 Wax RS-232	FIO	0008C	xx	004
SAIC L-80 Wax RS-232	FIO	0008C	xx	005
Raven U/L2 Dino RS-232	FIO	0008C	xx	006
Dino RS-232	FIO	0008C	xx	007
Merlin 132 Dino RS-232	FIO	0008C	xx	008
Merlin 160 Dino RS-232	FIO	0008C	xx	009
Merlin Jr 132 Dino RS-232	FIO	0008C	xx	00A
Mirage 80 Wax RS-232	FIO	0008C	xx	010
Mirage 100+ Wax RS-232	FIO	0008C	xx	011
Mirage Jr Wax RS-232	FIO	0008C	xx	012
Mirage Wax RS-232	FIO	0008C	xx	013
Electra Wax RS-232	FIO	0008C	xx	014
KittyHawk GSY Core RS-232	FIO	0008C	xx	015
Gecko Core RS-232	FIO	0008C	xx	016
Raven Backplane RS-232	FIO	0008C	xx	017
Gecko Optional RS-232	FIO	0008C	xx	018
Merlin+ 180 Dino RS-232	FIO	0008C	xx	019
Anole 64 Core RS-232	FIO	0008C	xx	01A
Anole 100 Core RS-232	FIO	0008C	xx	01B
Gecko 80 Core RS-232	FIO	0008C	xx	01C
Gecko 100 Core RS-232	FIO	0008C	xx	01D
Raven T' Wax RS-232	FIO	0008C	xx	01E
SkyHawk 100/120 Core RS-232	FIO	0008C	xx	01F
Anole 64 Timi RS-232	FIO	0008C	xx	020
Anole 100 Timi RS-232	FIO	0008C	xx	021
Merlin+ 132 Dino RS-232	FIO	0008C	xx	022
Rocky1 Wax RS-232	FIO	0008C	xx	023
Armyknife Optional RS-232	FIO	0008C	xx	025
Piranha 100 Wax RS-232	FIO	0008C	xx	026
Piranha 100 Core RS-232	FIO	0008C	xx	027
Mirage Jr Core RS-232	FIO	0008C	xx	028
Mirage Core RS-232	FIO	0008C	xx	029
Electra Core RS-232	FIO	0008C	xx	02A
Mirage 80 Core RS-232	FIO	0008C	xx	02B
Mirage 100+ Core RS-232	FIO	0008C	xx	02C
UL 350 Lasi Core RS-232	FIO	0008C	xx	02E
UL 550 Lasi Core RS-232	FIO	0008C	xx	02F
UL 350 Wax Core RS-232	FIO	0008C	xx	030
UL 550 Wax Core RS-232	FIO	0008C	xx	031
Raven T' Lasi Core RS-232	FIO	0008C	xx	032
Anole T Core RS-232	FIO	0008C	xx	033
SAIC L-80 Core RS-232	FIO	0008C	xx	034
PCX-L2 712/132 Core RS-232	FIO	0008C	xx	035
PCX-L2 712/160 Core RS-232	FIO	0008C	xx	036

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Merlin+ Wax RS-232	FIO	0008C	xx	03A
Raven U/L2 Core RS-232	FIO	0008C	xx	03B
Merlin 132 Core RS-232	FIO	0008C	xx	03C
Merlin 160 Core RS-232	FIO	0008C	xx	03D
Merlin+ 132 Core RS-232	FIO	0008C	xx	03E
Merlin+ 180 Core RS-232	FIO	0008C	xx	03F
Merlin 132 Wax RS-232	FIO	0008C	xx	040
Merlin 160 Wax RS-232	FIO	0008C	xx	041
Merlin 132/160 Wax RS-232	FIO	0008C	xx	043
Mohawk Core RS-232	FIO	0008C	xx	044
Rocky1 Core RS-232	FIO	0008C	xx	045
Rocky2 120 Core RS-232	FIO	0008C	xx	046
Rocky2 150 Core RS-232	FIO	0008C	xx	047
Rocky2 120 Dino RS-232	FIO	0008C	xx	048
Rocky2 150 Dino RS-232	FIO	0008C	xx	049
Anole L2 132 TIMI RS-232	FIO	0008C	xx	04A
Anole L2 132 Core RS-232	FIO	0008C	xx	04B
Anole L2 165 TIMI RS-232	FIO	0008D	xx	04C
Anole L2 165 Core RS-232	FIO	0008C	xx	04D
Kiji L2 132 Core RS-232	FIO	0008C	xx	04E
Kiji L2 132 Dino RS-232	FIO	0008C	xx	04F
Merlin Jr 132 Core RS-232	FIO	0008C	xx	050
Firehawk Core RS-232	FIO	0008C	xx	051
Raven+ Hi Power Backplane w EISA RS-232	FIO	0008C	xx	052
Raven+ Hi Power Backplane w/o EISA RS-232	FIO	0008C	xx	053
Raven+ Lo Power Backplane w EISA RS-232	FIO	0008C	xx	054
Raven+ Lo Power Backplane w/o EISA RS-232	FIO	0008C	xx	055
Raven+ w SE FWSCSI Core RS-232	FIO	0008C	xx	056
Raven+ w Diff FWSCSI Core RS-232	FIO	0008C	xx	057
FireHawk 200 Core RS-232	FIO	0008C	xx	058
FireHawk 200 Wax RS-232	FIO	0008C	xx	059
Raven+ L2 Backplane w EISA RS-232	FIO	0008C	xx	05A
Raven+ L2 Backplane w/o EISA RS-232	FIO	0008C	xx	05B
SummitHawk Dino RS-232	FIO	0008C	xx	05D
Staccato 132 Core LAN RS-232	FIO	0008C	xx	05E
Staccato 180 Core LAN RS-232	FIO	0008C	xx	05F
Hitachi Tiny 64 Core RS-232	FIO	0008C	xx	800
Hitachi Tiny 80 Core RS-232	FIO	0008C	xx	801
Gecko Optional RJ-16	FIO	0008D	xx	015
Gecko Core RJ-16	FIO	0008D	xx	016
Gecko 80 Core RJ-16	FIO	0008D	xx	01C
Gecko 100 Core RJ-16	FIO	0008D	xx	01D
GSC ITR Wax BA	BA	0008E	xx	004
SuperPace Wax BA	BA	0008E	xx	011
Mirage Jr Wax BA	BA	0008E	xx	012
Mirage Wax BA	BA	0008E	xx	013
Electra Wax BA	BA	0008E	xx	014
Raven Backplane Wax BA	BA	0008E	xx	017
Raven T' Wax BA	BA	0008E	xx	01E

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
SkyHawk Wax BA	BA	0008E	xx	01F
Rocky1 Wax BA	BA	0008E	xx	023
Mirage 80 Wax BA	BA	0008E	xx	02B
Mirage 100+ Wax BA	BA	0008E	xx	02C
UL 350 Core Wax BA	BA	0008E	xx	030
UL 550 Core Wax BA	BA	0008E	xx	031
SAIC L-80 Wax BA	BA	0008E	xx	034
Merlin+ Wax BA	BA	0008E	xx	03A
Merlin 132 Wax BA	BA	0008E	xx	040
Merlin 160 Wax BA	BA	0008E	xx	041
Merlin 132/160 Wax BA	BA	0008E	xx	043
Raven+ Hi Power Backplane w/EISA Wax BA	BA	0008E	xx	052
Raven+ Lo Power Backplane w/EISA Wax BA	BA	0008E	xx	054
FireHawk 200 Wax BA	BA	0008E	xx	059
Raven+ L2 Backplane w/EISA Wax BA	BA	0008E	xx	05A
SummitHawk Wax BA	BA	0008E	xx	05D
Hitachi Tiny 64 Wax BA	BA	0008E	xx	800
Hitachi Tiny 80 Wax BA	BA	0008E	xx	801
Anole Boot Rom	FIO	0008F	xx	004
Rocky1 Boot Rom	FIO	0008F	xx	005
Rocky2 120 Boot Rom	FIO	0008F	xx	006
Rocky2 150 Boot Rom	FIO	0008F	xx	007
SuperPace Wax EISA BA	BA	00090	xx	011
Raven Backplane Wax EISA BA	BA	00090	xx	017
Raven T' Wax EISA BA	BA	00090	xx	01E
SkyHawk 100/120 Wax EISA BA	BA	00090	xx	01F
Piranha 100 Wax EISA BA	BA	00090	xx	027
Mirage Jr Wax EISA BA	BA	00090	xx	028
Mirage Wax EISA BA	BA	00090	xx	029
Electra Wax EISA BA	BA	00090	xx	02A
Mirage 80 Wax EISA BA	BA	00090	xx	02B
Mirage 100+ Wax EISA BA	BA	00090	xx	02C
UL 350 Wax EISA BA	BA	00090	xx	030
UL 550 Wax EISA BA	BA	00090	xx	031
SAIC L-80 Wax EISA BA	BA	00090	xx	034
Merlin+ Wax EISA BA	BA	00090	xx	03A
Merlin 132 Wax EISA BA	BA	00090	xx	040
Merlin 160 Wax EISA BA	BA	00090	xx	041
Merlin 132/160 Wax EISA BA	BA	00090	xx	043
Raven Hi Power Backplane Wax EISA BA	BA	00090	xx	052
Raven Lo Power Backplane Wax EISA BA	BA	00090	xx	054
FireHawk 200 Wax EISA BA	BA	00090	xx	059
Raven L2 Backplane Wax EISA BA	BA	00090	xx	05A
SummitHawk Wax EISA BA	BA	00090	xx	05D
Hitachi Tiny 64 Wax EISA BA	BA	00090	xx	800
Hitachi Tiny 80 Wax EISA BA	BA	00090	xx	801
Baby Hugo Add-on Net FC (A3406A)	A_DMA	00091	80	014
Baby Jade Add-on Net FC (A3638A)	A_DMA	00091	80	020
GSC+ YLIASTER ATM	A_DMA	00092	80	004

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Anole 64 TIMI BA	BA	00093	xx	01A
Anole 64 TIMI BA	BA	00093	xx	01B
Anole T TIMI BA	BA	00093	xx	034
Anole L2 132 TIMI BA	BA	00093	xx	04A
Anole L2 165 TIMI BA	BA	00093	xx	04C
KittyHawk GSC+ Exerciser	B_DMA	00094	80	004
Hamlyn GSC+ Network Card	A_DMA	00095	80	004
Raven U/L2 Dino PS2 Keyboard	FIO	00096	xx	006
Dino PS2 Keyboard	FIO	00096	xx	007
Merlin 132 Dino PS2 Keyboard	FIO	00096	xx	008
Merlin 160 Dino PS2 Keyboard	FIO	00096	xx	009
Merlin Jr 132 Dino PS2 Keyboard	FIO	00096	xx	00A
Merlin+ 180 Dino PS2 Keyboard	FIO	00096	xx	019
Merlin+ 132 Dino PS2 Keyboard	FIO	00096	xx	022
Cascade EISA 100VG lan	FIO	00097	xx	004
Lo-fat Emulator	A_DMA	00098	80	004
Rocky1 Wax HPIB	FIO	00099	xx	023
Rocky2 120 Clark/Dino HPIB	FIO	00099	xx	048
Rocky2 150 Clark/Dino HPIB	FIO	00099	xx	049
GSC+ Venus ATM	A_DMA	0009A	80	004
GSC+ Samorobrive ATM	A_DMA	0009A	80	005
Test&Meas GSC HPIB	A_DIRECT	0009B	80	004
Reserved	No Type	0009C	xx	xxx
HP HSC-PCI Cards	A_DMA	0009D	80	004
Alaxis GSC+ 155Mb ATM	A_DMA	0009E	80	004
Alaxis GSC+ 622Mb ATM	A_DMA	0009E	80	005
SummitHawk 230 USB	A_DMA	0009F	80	05C
SummitHawk 230 100BaseT	A_DMA	000A0	80	05C
SPP2000 Console TTY	FIO	000A1	xx	004
Forte Core PCI 10/100BT LAN	FIO	000A2	xx	004
AllegroLow PCI 10/100BT LAN	FIO	000A2	xx	005
AllegroHigh Core PCI 10/100BT LAN	FIO	000A2	xx	006
PCI Plug-in Lan	FIO	000A2	xx	007
Lego 360 Core PCI 10/100BT Lan	FIO	000A2	xx	00A
Merlin+ 132 Core PCI Lan	FIO	000A2	xx	03E
Merlin+ 180 Core PCI Lan	FIO	000A2	xx	03F
Raven+ w SE FWSCSI Core PCI Lan	FIO	000A2	xx	056
Raven+ w DiffFWSCSI Core PCI Lan	FIO	000A2	xx	057
Staccato 132 PCI Lan	FIO	000A2	xx	05E
Staccato 180 PCI Lan	FIO	000A2	xx	05F
Forte Core PCI LVD Ultra2 SCSI	FIO	000A3	xx	004
Forte Core PCI SE UltraSCSI	FIO	000A3	xx	004
Forte Core PCI IDE/ATAPI CD-ROM	FIO	000A3	xx	004
AllegroLow Core PCI LVD Ultra2 SCSI	FIO	000A3	xx	005
AllegroLow Core PCI IDE/ATAPI CD-ROM	FIO	000A3	xx	005
AllegroHigh Core PCI LVD Ultra2 SCSI	FIO	000A3	xx	006
AllegroHigh Core PCI IDE/ATAPI CD-ROM	FIO	000A3	xx	006
PCI Plug-in Disk	FIO	000A3	xx	007
A5158A S FC Tachlite HBA	FIO	000A3	xx	008

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
A5157A D FC HBA	FIO	000A3	xx	009
Lego 360 Core PCI LVD Ultra2 SCSI	FIO	000A3	xx	00A
Lego 360 Core PCI NSE UltraSCSI	FIO	000A3	xx	00A
Lego 360 Core PCI WSE UltraSCSI	FIO	000A3	xx	00A
Lego 360 Core PCI IDE/ATAPI CD-ROM	FIO	000A3	xx	00A
Merlin+ 132 Core SE FWSCSI PCI Disk	FIO	000A3	xx	03E
Merlin+ 180 Core SE FWSCSI PCI Disk	FIO	000A3	xx	03F
Raven+ w SE FWSCSI Core PCI Disk	FIO	000A3	xx	056
Raven+ w Diff FWSCSI Core PCI Disk	FIO	000A3	xx	057
SPP2000 Core BA	FIO	000A4	xx	004
Epic PCI Bridge	BA	000A5	00	582
Saga PCI Bridge	BRIDGE	000A5	00	583
Sonic Ethernet 802.3 Card	FIO	000A6	xx	004
Baby Hugo Add-on mass FC (A3404A)	A_DMA	000A7	80	015
Mombasa GS Add-on mass FC (A3591)	A_DMA	000A7	80	018
Baby Jade Add-on mass FC (A3636A)	A_DMA	000A7	80	021
Rocky2-120 Front Keyboard	A_DIRECT	000A8	00	004
Rocky2-150 Front Keyboard	A_DIRECT	000A8	00	005
Forte Core PCI SuperIO RS-232	FIO	000A9	00	004
Forte Core PCI USB KB	FIO	000A9	00	004
AllegroLow Core PCI SuperIO RS-232	FIO	000A9	00	005
AllegroLow Core PCI USB KB	FIO	000A9	00	005
AllegroHigh Core PCI SuperIO RS-232	FIO	000A9	00	006
AllegroHigh Core PCI USB KB	FIO	000A9	00	006
Miscellaneous PCI Plug-in	FIO	000A9	xx	007
Lego 360 Core PCI SuperIO RS-232	FIO	000A9	xx	00A
Lego 360 Core PCI USB KB	FIO	000A9	xx	00A
HP-PB HF Interface	B_DMA	00100	80	004
Hitachi Console Module	A_DIRECT	00101	80	004
Hitachi Boot Module	A_DIRECT	00102	80	004
MELCO HCMAP	A_DMA	00201	80	004
MELCO HBMLA MLAMA	A_DMA	00202	80	004
MELCO HBMLA MLAIT	A_DIRECT	00203	80	004
MELCO HBRFU	A_DMA	00205	80	004
MELCO HMPHA	B_DMA	00206	80	000
MELCO HMPHA_10	B_DMA	00206	80	005
MELCO HMQHA	B_DMA	00206	80	006
MELCO HMQHA_10	B_DMA	00206	80	007
MELCO HNDWA MDWS-70	B_DMA	207	80	004
MELCO HBDPC	A_DIRECT	00208	80	004
DCI TWINAX TERM IO MUX	A_DIRECT	00300	00	004
Metheus Frame Buffer	FIO	00320	xx	004
BARCO CX4500 VME Grphx Cnsl	FIO	00340	xx	004
Hughes TOG VME FDDI	FIO	00360	xx	004
Interphase NIO-FC	A_DMA	00380	80	004
Interphase NIO-ATM	A_DMA	00381	80	004
Interphase NIO-100BaseTX	A_DMA	00382	80	004
Interphase NIO-100BaseT4	A_DMA	00382	80	005
Interphase NIO-100VG	A_DMA	00383	80	004

Module	TYPE	SVERSION		HVERSION
		Model	Opt	Model
Anole-T Core Sync X.25	FIO	003A0	xx	004
Essential GSC+Hippi	A_DMA	003C0	80	004
Third-Party Module		00FFF	xx	xxx
Obsolete	B_DMA	80002	40	EB6

B.2.2 Bus Identifiers

For bus converter ports and native processors, `IODC_HVERSION{0..4}` gives the bus ID for the bus to which the module is attached. The following table lists the currently assigned bus IDs.

<code>IODC_HVERSION{0..4}</code>	Bus
0	MID_BUS
1	SMB
2	HP-PB
3	Summit
4	Viper-VSC
5	Viper-HPPB
6	K9-KSC
7	Spider-SSC
8	Stiletto-SSC
9	GSC-HPPB
10	GSC+(HSC)
11	Runway
12	GSC
13	GSC++
14	NEC System Bus
15-31	Reserved

B.2.3 CPU Identification Numbers

The architecture provides CPU identification numbers for each processor implementation.

ENGINEERING NOTE

The definition of the interpretation and under what circumstances the number changes should be resolved to the operating system organizations.

These values are returned by the PDC_MODEL "Return CPU ID" option. An attempt has been made to keep *CPU ID* numbers and *Floating Point Coprocessor* numbers the same, but this has not been possible for PCX-U+ and PCX-W.

All values are in hexadecimal.

TABLE B-2. CPU Identification Version Numbers

Implementation	Version	
	Model	Revision
Reserved	0	0
Software Emulation	0	1 - 1F
PA - RISC Simulator	1	1 - 1F
Reserved	2 - A	1 - 1F
Tornado	B	1 - 1F
Reserved	C	1 - 1F
PCX-L	D	1 - 1F
PCX-U	E	0 - D
PCX-U+	E	0 - 1F
PCX-U+	10	0 - 1F
PCX-L2	F	1 - 1F
PCX-W	11	1 - 1F
Reserved	12 - 3F	1 - 1F

B.2.4 Assist Version Numbers

The architecture provides version numbers for each of the assist units that are implemented.

SUPPORT NOTE

The definition of the interpretation and under what circumstances the number changes should be resolved with the support organization.

Floating-Point Coprocessor

The floating-point coprocessor architecture includes a model and revision number to identify the coprocessor hardware for support purposes. These values are returned in the floating-point status register.

The model numbers below are defined for the named implementations. The revision number can be any value, except zero, and is used to indicate a different revision of the same chip or board.

SUPPORT NOTE

The support organization should provide criteria on when the revision number should change.

All values in the table are hexadecimal.

TABLE B-3. Floating-Point Coprocessor Version Numbers

Implementation	Version	
	Model	Revision
Reserved	0	0
Software Emulation	0	1 - 1F
PA-RISC Simulator	1	1 - 1F
Indigo	2	1 - 1F
Sterling 1 MIU (TYCO)	3	1 - 1F
Sterling 1 MIU (ROC w/Weitek)	4	1 - 1F
FPC (NMOS-III w/Weitek)	6	1 - 1F
FPC (NMOS-III w/Bit)	7	1 - 1F
PCX-S (Timex - TI)	8	1 - 1F
PCX-T (Rolex - CMOS-26B)	9	1 - 1F
HARP-I	A	1 - 1F
Tornado	B	1 - 1F
PA-50 (Hitachi)	C	1 - 1F
PCX-L (CMOS-26B)	D	1 - 1F
PCX-U	E	0 - D
PCX-U+	E	0 - 1F
VR	F	1 - 1F
PCX-W	10	1 - 1F
Cheetah/Firefox MIU (NMOS-III)	10	1 - 1F
Reserved	11 - 3F	1 - 1F

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