

# Index

## Numbers

- 100 Base-T, 4-147
- 10 Base-T, 4-147
- 13W3
  - monitor output, 4-73
  - stereo sync, 4-89
- 36 pin high density parallel port, 4-36
- 3 pin mini-DIN
  - stereo sync, 4-89
- 4 pin mini-DIN, 4-7
  - power port, 4-7
  - S-video out, 4-94
- 50 pin (3 row)
  - IPI, 4-47
- 50 pin (centronics)
  - SCSI-I, 4-49
- 50 pin (high density)
  - SCSI-2, 4-51
- 60 pin connector
  - SGI digital video, 4-99
- 62 pin (3 row)
  - SMD, 4-45
- 68 pin connector
  - SCSI-2 (wide), 4-52
  - SGI digital video, 4-99
  - ultra SCSI (singled ended), 4-55
- 6 pin mini-DIN
  - keyboard/mouse, 4-28
  - PS/2 keyboard connection, 4-29
  - PS/2 mouse, 4-30
- 7 pin mini-DIN
  - S-video in, 4-94
- 8 pin DIN, 4-7
  - connector drawing, 4-20
  - connector pinout, 4-20
  - where found, 4-7
- 8 pin mini-DIN, 4-6
  - serial port, 4-17
  - where found, 4-6

## A

- ADAT, 3-38
  - optical digital audio in/out, 4-108
- alpha output, 4-87
  - terminator rack, 3-27
- ASO
  - audio serial option board, 4-111
- audio
  - ADAT optical digital audio, 4-108
    - OCTANE, 3-38
    - Onyx2, 3-53
  - AES digital audio, 4-107
    - OCTANE, 3-38
    - Onyx2, 3-53
  - analog interfaces
    - cross platform table of, 4-102
  - connections
    - Indigo, 3-20
    - Indigo2, 3-29
    - Indy, 3-31
    - O2, 3-34, 3-35, 3-36
    - OCTANE, 3-38
    - Onyx2, 3-53
    - Personal IRIS (4D/2x), 3-11
    - Personal IRIS (4D/3x), 3-12, 3-13
  - connector notation, 4-104
  - digital interfaces
    - cross platform table of, 4-103
  - interfaces, 4-102
  - line in/out, 4-105
    - characteristics, 4-105
  - microphone input and headphone output, 4-106
    - characteristics, 4-106
  - RCA "phono" jack, 4-104
  - speaker power, 4-108
  - stereo jack and plug, 4-104

## B

- backplanes, 4-133
  - 9U VME, 4-133
    - diehard, diehard2, eveready, 4-134
    - eveready deskside, 4-136
    - predator, 4-135
    - terminator rack, 4-137
    - twin tower, 4-133
- badges
  - Indigo2, 2-4
  - R4000 Indigo, 2-3

- base I/O module
  - Onyx2 deskside, 3-50
  - Onyx2 rack, 3-52
  - Origin2000 deskside, 3-44
  - Origin2000 rack, 3-46
- BNC
  - AES digital audio, 4-107
  - CCIR 601 serial digital video, 4-97
  - component video in/out, 4-97
  - composite video, 4-93
  - frame grab, 4-97
  - genlock, 4-87
  - monitor output, 4-72
  - swap ready, 4-91
  - video sync loopthru, 4-97
- board slots
  - EISA/GIO64, 4-139
    - extreme backplane, 4-139
    - IMPACT backplane, 4-140
  - GIO32/32-bis, 4-138
  - PCI
    - O2, 4-141
    - OCTANE, 4-141
    - Origin200, 4-142
    - Origin2000 and Onyx2, 4-142
  - XIO
    - OCTANE, 4-143
    - Onyx2, 4-144
    - Origin2000, 4-144
- bus interfaces, 4-111
  - bandwidth comparison, 4-112
  - cross platform table of, 4-113
  - EISA, 4-125
    - power budget, 4-125
  - GIO32/32-bis, 4-123
    - power budget, 4-123
  - GIO64, 4-124
    - power budget, 4-124
  - PCI, 4-128
    - power budget, 4-129
  - VME32 (6U), 4-117
    - power budget, 4-118
  - VME32 (9U), 4-114
    - power budget, 4-115
  - VME64 (9U), 4-121
    - power budget, 4-121
  - VME P2 expansion, 4-119
    - power budget, 4-119
  - XIO, 4-132

## C

- captive drive
  - 15 slot twin tower, 4-162
  - Indy, 4-165
  - Personal IRIS, 4-164
  - predator, 4-163
- Challenge S, 3-32
  - ethernet connection, 3-32
  - I/O panel, 3-32
  - parallel port connection, 3-32
  - SCSI connection, 3-32
  - serial ports, 3-32
- code names, 1-4
- composite video input
  - Indy, 3-31
  - O2, 3-36
- composite video output
  - O2, 3-36
  - Onyx2, 3-54
  - terminator rack, 3-27
- connector drawing
  - 13W3 monitor output, 4-73
  - 36 pin high density parallel port, 4-36
  - 3 pin mini-DIN stereo sync, 4-89
  - 4 pin mini-DIN power port, 4-21
  - 4 pin mini-DIN S-video, 4-94
  - 50 pin high density SCSI-2, 4-51
  - 60 pin SGI digital video, 4-99
  - 68 pin SCSI-2 wide, 4-52
  - 68 pin SGI digital video, 4-99
  - 68 pin ultra SCSI single ended, 4-55
  - 6 pin mini-DIN keyboard/mouse, 4-28
  - 6 pin mini-DIN PS/2 keyboard, 4-29
  - 6 pin mini-DIN PS/2 mouse, 4-30
  - 7 pin mini-DIN S-video input, 4-95
  - 8 pin DIN powered peripheral port, 4-20
  - 8 pin mini-DIN, 4-17
  - 8 pin mini-DIN diagnostic port, 4-18
  - ADAT optical digital audio, 4-108
  - BNC RGB monitor output, 4-72
  - Centronics (50 pin) SCSI-I, 4-49
  - DB-15 AUI ethernet, 4-146
  - DB-15 genlock option, 4-88
  - DB-15 keyboard/mouse, 4-26
  - DB-25 CCIR 601 parallel, 4-98
  - DB-25 parallel port, 4-34
  - DB-26 (3 row) analog breakout box, 4-96
  - DB-37 & DB-25 ESDI, 4-43
  - DB-37 Ikon parallel port, 4-37
  - DB-50 (3 row) IPI disk, 4-47

- DB-62 (3 row) SMD disk, 4-45
- DB-9 (EIA-422) (4D), 4-13
- DB-9 ASO 232/422 serial port, 4-14
- DB-9 diagnostic port, 4-19
- DB-9 keyboard/mouse, 4-27
- DB-9 mouse (4D), 4-31
- DB-9 PC compatible 232/422 serial port, 4-16
- DB-9 PC compatible serial port, 4-15
- DB-9 serial port (4D), 4-11
- DB-9 stereo sync (male & female), 4-90
- HD-15 monitor output, 4-76
- RCA "phono" jack, 4-104
- RJ-45 ethernet, 4-147
- RJ-45 ISDN, 4-148
- stereo jack and plug, 4-104
- stereo jack and plug cpu interrupt, 4-109
- connector pinout
  - 13W3 monitor output, 4-74
  - 36 pin high density parallel port, 4-36
  - 3 pin mini-DIN stereo sync, 4-89
  - 4 pin mini-DIN power port, 4-21
  - 4 pin mini-DIN S-video, 4-94
  - 50 pin high density SCSI-2, 4-51
  - 60 pin SGI digital video, 4-100
  - 68 pin SCSI-2 wide, differential, 4-54
  - 68 pin SCSI-2 wide, single ended, 4-53
  - 68 pin SGI digital video, 4-101
  - 68 pin ultra SCSI single ended, 4-56
  - 6 pin mini-DIN keyboard/mouse, 4-28
  - 6 pin mini-DIN PS/2 keyboard, 4-29
  - 6 pin mini-DIN PS/2 mouse, 4-30
  - 7 pin mini-DIN S-video input, 4-95
  - 8 pin DIN powered peripheral port, 4-20
  - 8 pin mini-DIN (EIA-423 mode), 4-17
  - 8 pin mini-DIN diagnostic port, 4-18
  - Centronics (50 pin) SCSI-I, 4-50
  - DB-15 AUI ethernet, 4-146
  - DB-15 genlock option, 4-88
  - DB-15 keyboard/mouse, 4-26
  - DB-25 CCIR 601 parallel, 4-98
  - DB-25 parallel port, 4-35
  - DB-26 (3 row) analog breakout, 4-96
  - DB-37 & DB-25 ESDI, 4-44
  - DB-37 Ikon parallel port, 4-38
  - DB-50 (3 row) IPI disk, 4-48
  - DB-62 (3 row) SMD disk, 4-46
  - DB-9 (EIA-232) (4D), 4-11
  - DB-9 (EIA-422) (4D), 4-13
  - DB-9 ASO 232/422 serial port, 4-14
  - DB-9 diagnostic port, 4-19
  - DB-9 keyboard/mouse, 4-27
  - DB-9 mouse (4D), 4-31
  - DB-9 PC compatible 232/422 serial port, 4-16
  - DB-9 PC compatible serial port, 4-15
  - DB-9 stereo sync (male & female), 4-90
  - HD-15 monitor output, 4-76
  - RJ-45 ethernet, 4-147
  - RJ-45 ISDN, 4-148
  - stereo jack AES digital audio, 4-107
  - stereo jack cpu interrupt, 4-110
  - stereo jack headphone output, 4-106
  - stereo jack line in/out, 4-105
  - stereo jack microphone input, 4-106
  - cpu interrupt, 4-109
    - connection
      - eveready, 3-24
      - Onyx2, 3-53
      - Origin2000, 3-47
      - terminator rack, 3-27
    - interrupt inputs, 4-110
    - interrupt outputs, 4-110
  - craylink connection
    - Origin200, 3-41

**D**

- data transfer rates
  - serial ports, 4-9
- DB-15
  - ethernet AUI, 4-146
  - genlock option, 4-88
  - keyboard/mouse, 4-26
- DB-25
  - CCIR 602 parallel digital video, 4-98
  - ESDI, 4-43
  - parallel port, 4-34
- DB-37
  - ESDI, 4-43
  - parallel port, 4-37
- DB-9
  - ASO 232/422 serial port, 4-14
  - comparison of pinouts, 4-10
  - diagnostic port, 4-19
  - EIA-232 serial port (4D), 4-11
  - EIA-422 serial port (4D), 4-13
  - keyboard/mouse, 4-27
  - mouse (4D), 4-31
  - PC compatible 232/422 serial port, 4-16
  - PC compatible serial port, 4-15
  - stereo sync, 4-90

- diagnostic port
    - cross platform table of, 4-7
    - Onyx2 deskside (8 pin mini-DIN), 3-55
    - Onyx2 deskside (DB-9), 3-50
    - Onyx2 rack (8 pin mini-DIN), 3-56
    - Origin200 (8 pin mini-DIN), 3-41
    - Origin2000 deskside (8 pin mini-DIN), 3-47
    - Origin2000 deskside (DB-9), 3-44
    - Origin2000 rack (8 pin mini-DIN), 3-48
  - digital video connection
    - O2 (R10000), 3-35
    - O2 (R5000), 3-34
  - disk drive interfaces, 4-39
    - 12 slot twin tower, 3-3
    - 15 slot twin tower, 3-5
    - bus lengths, 4-39
    - cross platform table of, 4-40
    - ESDI, 4-43
    - internal chassis bus lengths, 4-41
    - IPI, 4-47
    - SCSI-2, 4-51
      - termination, 4-51
    - SCSI-2 (wide), 4-52
    - SCSI-I, 4-49
      - termination, 4-49
    - SMD, 4-45
    - terminations, 4-42
    - ultra SCSI (singled ended), 4-55
  - drive, captive
    - 15 slot twin tower, 4-162
    - Indy, 4-165
    - Personal IRIS, 4-164
    - predator, 4-163
  - drive carrier
    - Origin200, 3-42, 4-166
  - drive module
    - cross platform table of, 4-154
    - twin tower, 4-155
  - drive sled, 4-153
    - cross platform table of, 4-154
    - Indigo, 4-157
    - Indigo2, 4-158
    - O2 (SCA), 3-34, 3-35, 4-160
    - OCTANE, 3-39
    - OCTANE/Origin/Onyx2, 4-161
    - Onyx2, 3-50
    - Onyx/Challenge, 4-159
    - Origin200, 3-42
    - Origin2000, 3-44
    - Personal IRIS, 4-156
    - single tower (diehard2), 3-16
  - drive sleds/modules, 4-153
- E**
- ECP, 4-33
  - EIA-232, 4-8
    - voltage levels, 4-8
  - EIA-422, 4-8
    - voltage levels, 4-8
  - EIA-423, 4-8
    - voltage levels, 4-8
  - 8 pin DIN, 4-7
    - where found, 4-7
  - 8 pin mini-DIN, 4-6
    - where found, 4-6
  - EISA bus, 4-111, 4-125
  - EPP, 4-33
  - ESDI, 4-43
    - connector pinout, 4-44
  - ethernet
    - AUI, 4-146
    - connection
      - 12 slot twin tower, 3-3
      - 15 slot twin tower, 3-5
      - Challenge S, 3-32
      - eveready, 3-24
      - Indigo, 3-20
      - Indigo2, 3-29
      - Indy, 3-31
      - O2, 3-34, 3-35
      - OCTANE, 3-38
      - Onyx2, 3-53
      - Origin200, 3-41
      - Origin2000, 3-47
      - Personal IRIS (4D/2x), 3-11
      - Personal IRIS (4D/3x), 3-12, 3-13
      - predator, 3-9
      - single tower (diehard), 3-7
      - single tower (diehard2), 3-17, 3-18
      - terminator rack, 3-27
    - cross platform table of, 4-145
    - RJ-45, 4-147

- eveready
  - alpha output, 3-24
  - composite video output, 3-24
  - cpu interrupt output, 3-24
  - EIA-422 serial port connection, 3-24
  - ethernet connection, 3-24
  - frame grab output, 3-24
  - front & rear views, 3-22
  - genlock connection, 3-24
  - keyboard connection, 3-24
  - monitor output, 3-24
  - parallel port connection, 3-24
  - powered peripheral port, 3-24
  - serial ports, 3-24
    - maximum baud rate, 4-9
  - serial ports available, 4-6
  - S-video output, 3-24
  - swap ready output, 3-24
- external devices
  - spaceball, 4-5
  - stereoview emitter, 4-5

## F

- flat panel connection
  - O2 R10000, 3-35
  - O2 R5000, 3-34
- flow modem device name, 4-8
- 4 pin mini-DIN
  - power port, 4-7
- frame grab output
  - eveready, 3-24
  - terminator rack, 3-27

## G

- genlock, 4-87
  - connection
    - eveready, 3-24
    - Indigo, 3-21
    - Indigo2, 3-29
    - Onyx2, 3-54
    - Personal IRIS (4D/2x), 3-11
    - Personal IRIS (4D/3x), 3-12, 3-13
    - terminator rack, 3-27
  - genlock option connection, 4-88

- GIO32/32-bis bus, 4-111, 4-123
  - board slots
    - Indigo, 3-20, 4-138
    - Indy, 4-138
- GIO64 bus, 4-111, 4-124
- graphics interfaces
  - 13W3 pinout comparison table, 4-74
  - alpha output, 4-87
    - eveready, 3-24
    - terminator rack, 3-27
  - cross platform table of, 4-71
  - frame grab output
    - terminator rack, 3-27
  - genlock, 4-87
  - genlock option, 4-88
  - graphics, 4-70
  - graphics vs. video output, 4-77
  - monitor ID pins, 4-73
    - definition of, 4-75
  - monitor output
    - 13W3, 4-73
    - BNC, 4-72
    - HD-15, 4-76
    - monitor ID pins, 4-73
  - monitor output connection
    - Indy, 3-31
    - O2, 3-34, 3-35
    - OCTANE, 3-38
    - terminator rack, 3-27
  - output timing information, 4-77
  - stereo sync, 4-89
    - O2, 3-35
    - OCTANE, 3-38
    - Onyx2, 3-54
  - supported graphics modes, 4-86
  - swap ready output, 4-91
    - terminator rack, 3-27
- graphics modes
  - list of supported, 4-86

## H

- hardware cpu, 1-2
  - discussion of, 5-2
- HD-15
  - monitor output, 4-76

- hinv
  - 1/2 tape controller, 5-21
  - audio devices, 5-15
  - bus adapters, 5-21
  - cache, 5-7
  - cpu & fpu types, 5-6
  - ESDI, 5-20
  - ethernet, 5-11
  - FDDI, 5-12
  - graphics, 5-16
  - I/O boards, 5-22
  - IPI, 5-20
  - memory, 5-7
  - miscellaneous, 5-23
  - other networking, 5-13
  - PCI devices, 5-22
  - processor boards, 5-5
  - SCSI controllers, 5-8
  - SCSI devices, 5-9
  - serial & parallel ports, 5-19
  - SMD, 5-21
  - video devices, 5-14

## I

- IBUS, 4-111
- IEEE 1284, 4-33
- Indigo
  - audio connections, 3-20
  - ethernet connection, 3-20
  - front & rear views, 3-19
  - genlock connection, 3-21
  - GIO32/32-bis slots, 3-20
  - keyboard connection, 3-20
  - monitor output, 3-20, 3-21
  - parallel port, 3-20
  - SCSI connection, 3-20
  - serial ports, 3-20
    - maximum baud rate, 4-9
  - serial ports available, 4-6
  - stereo sync connection, 3-21
  - video connections, 3-21
- Indigo2
  - audio connections, 3-29
  - ethernet connection, 3-29
  - front & rear views, 3-28
  - genlock connection, 3-29
  - keyboard connection, 3-29
  - monitor output (13W3), 3-29
  - mouse connecton, 3-29
  - parallel port connection, 3-29

- SCSI connection, 3-29
- serial ports, 3-29
- serial ports available, 4-6, 4-9
- stereo sync connection, 3-29

- Indy
  - audio connections, 3-31
  - composite video input connection, 3-31
  - ethernet connection, 3-31
  - front & rear views, 3-30
  - IndyCam connection, 3-31
  - ISDN connecton, 3-31
  - keyboard connection, 3-31
  - monitor output connection, 3-31
  - mouse connection, 3-31
  - parallel port connection, 3-31
  - SCSI connection, 3-31
  - serial ports, 3-31
    - maximum baud rate, 4-9
  - serial ports available, 4-6
  - stereo sync connection, 3-31
  - S-video input connection, 3-31

## I/O panel

- 12 slot twin tower, 3-3
- 15 slot twin tower, 3-5
- Challenge S, 3-32
- eveready, 3-24
- Indigo, 3-20, 3-21
- Indigo2, 3-29
- Indy, 3-31
- O2 R10000, 3-35
- O2 R5000, 3-34
- OCTANE, 3-38
- Onyx2 (IO6G), 3-53
- Origin200, 3-41
- Origin2000 (IO6), 3-47
- Personal IRIS (4D/2x), 3-11
- Personal IRIS (4D/3x), 3-12, 3-13
- predator, 3-9
- single tower (diehard), 3-7
- single tower (diehard2), 3-17, 3-18
- terminator, 3-27

I/O plate  
12 slot twin tower, 3-3  
15 slot twin tower, 3-5  
cross platform table of, 4-149  
Personal IRIS (4D/2x), 3-11  
predator, 3-9  
single tower (diehard), 3-7  
single tower (diehard2), 3-17, 3-18  
type I, 4-149  
type II, 4-150  
type III, 4-151  
type IV, 4-152

IPI, 4-47  
connector pinout, 4-48

IRIX, 1-3, 6-1  
merge releases, 6-6  
new capabilities, 6-5  
new cpu, 6-3  
new graphics, 6-4  
new systems, 6-2

ISDN  
connection  
Indy, 3-31  
cross platform table of, 4-145  
RJ-45, 4-147

## J

jack and plug  
speaker power, 4-108

## K

keyboard  
connection  
12 slot twin tower, 3-3  
15 slot twin tower, 3-5  
6 pin mini-DIN, 4-28  
cross platform table of, 4-22  
DB-15, 4-26  
DB-9, 4-27  
eveready, 3-24  
Indigo, 3-20  
Indigo2, 3-29  
Indy, 3-31  
O2, 3-34, 3-35  
OCTANE, 3-38  
Onyx2 (primary), 3-53  
Onyx2 (secondary), 3-53  
Personal IRIS (4D/2x), 3-11

Personal IRIS (4D/3x), 3-12, 3-13  
predator, 3-9  
PS/2 (6 pin mini-DIN), 4-29  
single tower (diehard), 3-7  
single tower (diehard2), 3-17, 3-18  
terminator rack, 3-27  
voltages and interface, 4-23  
styles  
4D, 4-24  
Indigo, 4-25  
personal IRIS, 4-24  
PS/2, 4-25

## M

memory, 4-65  
4D style, 4-66  
cross platform table of, 4-65  
Indigo/Indigo2/Indy (R4000) style, 4-67  
Indigo R3000 style, 4-66  
O2 style, 4-68  
OCTANE style, 4-68  
Onyx/Challenge style, 4-67  
Origin/Onyx2 style, 4-69  
Personal IRIS (R2000), 4-66

modem device name (ttym), 4-8

monitor

monitor ID pins, 4-73

output

12 slot twin tower, 3-3  
15 slot twin tower, 3-5  
eveready, 3-24  
Indigo, 3-20, 3-21  
Indigo2, 3-29  
Indy, 3-31  
O2, 3-34, 3-35  
OCTANE, 3-38  
Onyx2, 3-54  
Personal IRIS (4D/2x), 3-11  
Personal IRIS (4D/2x) - HD-15, 3-11  
Personal IRIS (4D/3x), 3-12, 3-13  
predator, 3-9  
single tower (diehard2), 3-17, 3-18  
single tower diehard, 3-7  
terminator rack, 3-27

output connection

13W3, 4-73  
13W3 pinout comparison table, 4-74  
BNC, 4-72  
voltage levels, 4-72

- output timing, 4-77
- specifications, 4-61
- monitor ID pins, 4-73
  - definition of, 4-75
- monitors, 4-57
  - connections, 4-57
  - drawings of, 4-57
- mouse
  - connection
    - 6 pin mini-DIN, 4-28
    - DB-15, 4-26
    - DB-9, 4-27
    - DB-9 (4D style), 4-31
    - Indigo2, 3-29
    - Indy, 3-31
    - O2, 3-34, 3-35
    - OCTANE, 3-38
    - Onyx2 (primary), 3-53
    - Onyx2 (secondary), 3-53
    - PS/2 (6 pin mini-DIN), 4-30
    - voltages and interface, 4-23
- multi-module system controller, 3-52

## N

- naming of serial ports, 4-8
- network connections
  - cross platform table of, 4-145
  - ethernet
    - AUI, 4-146
    - RJ-45, 4-147
  - ISDN
    - RJ-45, 4-147
- nicknames, 1-4

## O

- O2
  - audio connections, 3-34, 3-35, 3-36
  - composite video connections, 3-36
  - digital video connection, 3-34, 3-35
  - drive sled, 3-34, 3-35
  - ethernet connection, 3-34, 3-35
  - flat panel connection, 3-34, 3-35
  - front & rear views, 3-33
  - keyboard connection, 3-34, 3-35
  - monitor output connection, 3-34, 3-35
  - mouse connection, 3-34, 3-35
  - parallel port connection, 3-34, 3-35

- PCI card slot, 3-34, 3-35
- R1000 I/O panel, 3-35
- R5000 I/O panel, 3-34
- serial ports, 3-34, 3-35
  - maximum baud rate, 4-9
- serial ports available, 4-6
- stereo sync connection, 3-34, 3-35
- S-video connection, 3-36
- Ultra SCSI connection, 3-34, 3-35

## OCTANE

- ADAT optical digital audio, 3-38
- AES digital audio connection, 3-38
- audio connections, 3-38
- drive sled, 3-39
- ethernet connection, 3-38
- front & rear views, 3-37
- I/O panel, 3-38
- keyboard connection, 3-38
- monitor output connection, 3-38
- mouse connection, 3-38
- parallel port connection, 3-38
- PCI module, 3-38
- PCI slots, 3-38
- serial ports, 3-38
  - maximum baud rate, 4-9
- serial ports available, 4-6
- speaker power connection, 3-38
- stereo sync connection, 3-38
- ultra SCSI connection, 3-38
- XIO module, 3-38
- XIO slots, 3-38

## Onyx2

- ADAT optical digital audio connection, 3-53
- AES digital audio connection, 3-53
- audio connections, 3-53
- composite video output, 3-54
- cpu interrupt connection, 3-53
- deskside
  - base I/O module, 3-50
  - diagnostic port, 3-50
  - front & rear views, 3-49
  - PCI module, 3-50
  - system controller, 3-50
  - XIO slots, 3-50
- diagnostic port connection, 3-55, 3-56
- drive sleds, 3-50
- ethernet connection, 3-53
- genlock connections, 3-54
- monitor output connection, 3-54
- parallel port connection, 3-53
- primary keyboard connection, 3-53
- primary mouse connection, 3-53

- rack
  - base I/O module, 3-52
  - front & rear views, 3-51
  - multi-module system controller, 3-52
  - XIO slots, 3-52
- secondary keyboard connection, 3-53
- secondary mouse connection, 3-53
- serial digital video connection, 3-54
- serial ports, 3-53
  - maximum baud rate, 4-9
- serial ports available, 4-6
- speaker power connection, 3-53
- stereo sync connection, 3-54
- S-video output connection, 3-54
- swap ready output, 3-54
- ultra SCSI connection, 3-53
- video loopthru, 3-53
- operating system, IRIX, 6-1
- Operating System. See IRIX
- Origin200
  - craylink connection, 3-41
  - diagnostic port connection, 3-41
  - drive carrier, 3-42
  - drive sled, 3-42
  - ethernet connection, 3-41
  - front & rear views, 3-40
  - keyboard & mouse connection, 3-41
  - parallel port connection, 3-41
  - serial ports, 3-41
    - maximum baud rate, 4-9
  - serial ports available, 4-6
- Origin2000
  - cpu interrupts, 3-47
  - deskside
    - base I/O module, 3-44
    - diagnostic port, 3-44
    - front & rear views, 3-43
    - PCI module, 3-44
    - XIO slots, 3-44
  - diagnostic port, 3-47, 3-48
  - drive sled, 3-44
  - ethernet connection, 3-47
  - multi-module system controller, 3-46
  - rack
    - base I/O module, 3-46
    - front & rear views, 3-45
    - XIO slots, 3-46
  - serial ports, 3-47
    - maximum baud rate, 4-9
  - serial ports available, 4-6
  - ultra SCSI connection, 3-47

## P

- parallel por
  - modes
    - byte, 4-33
- parallel port
  - connection
    - 36 pin high density, 4-36
    - built-in DB-25, 4-34
    - Challenge S, 3-32
    - eveready, 3-24
    - ikon (DB-37), 4-37
    - Indigo, 3-20
    - Indigo2, 3-29
    - Indy, 3-31
    - O2, 3-34, 3-35
    - OCTANE, 3-38
    - Onyx2, 3-53
    - Origin200, 3-41
    - Personal IRIS (4D/2x), 3-11
    - Personal IRIS (4D/3x), 3-12, 3-13
    - terminator rack, 3-27
  - cross platform table of, 4-32
  - definitions
    - BOISEPP, 4-33
    - IEEE 1284, 4-33
    - SGIPP, 4-33
    - STDPP, 4-32
  - ikon versatec, 4-32
  - modes
    - compatibility, 4-33
    - ECP, 4-33
    - EPP, 4-33
    - nibble, 4-33
  - modes and signals, 4-34
  - pinout comparison in different modes, 4-35
  - table of supported modes, 4-33
- PCI bus, 4-111, 4-128
  - module
    - Onyx2 deskside, 3-50
    - Origin2000, 3-44
  - slots
    - O2, 4-141
    - O2 R10000, 3-35
    - O2 R5000, 3-34
    - OCTANE, 3-38, 4-141
    - Origin200, 4-142
    - Origin2000 and Onyx2, 4-142

## Personal IRIS

- 4D/2x
  - 6U VME slot, 3-11
  - audio connections, 3-11
  - ethernet connection, 3-11
  - genlock connection, 3-11
  - I/O plate, 3-11
  - keyboard connection, 3-11
  - monitor output, 3-11
  - monitor output (HD-15), 3-11
  - parallel port connection, 3-11
  - serial ports, 3-11
- 4D/3x
  - 6U VME slot, 3-12, 3-13
  - audio connections, 3-12, 3-13
  - ethernet connection, 3-12, 3-13
  - genlock connection, 3-12, 3-13
  - keyboard connection, 3-12, 3-13
  - monitor output, 3-12, 3-13
  - parallel port connection, 3-12, 3-13
  - serial ports, 3-12, 3-13
  - stereo sync connection, 3-13
  - VME P2 expansion, 3-12, 3-13
- 4 pin mini-DIN power port, 4-21
- front & rear views, 3-10
- powered peripheral port, 3-10
- SCSI connection, 3-10
- serial ports
  - maximum baud rate, 4-9
  - serial ports available, 4-6
- TFLU
  - front & rear views, 3-14
- platform, definition of, 1-2
- powered peripheral port, 4-7
  - 12 slot twin tower, 3-3
  - 15 slot twin tower, 3-5
  - cross platform table of, 4-7
  - eveready, 3-24
  - Personal IRIS, 3-10
  - predator, 3-9
  - single tower (diehard), 3-7
  - single tower (diehard2), 3-17, 3-18
  - terminator rack, 3-27
- power port
  - 4 pin mini-DIN, 4-7
- predator
  - ethernet connection, 3-9
  - front & rear views, 3-8
  - I/O plate, 3-9
  - keyboard connection, 3-9
  - monitor output, 3-9
  - powered peripheral port, 3-9

- serial ports, 3-9
  - maximum baud rate, 4-9
  - serial ports available, 4-6
- processor history
  - table of, 5-3
- PS/2
  - keyboard connection, 4-29
  - mouse connection, 4-30

## R

- RCA "phono" jack
  - AES digital audio, 4-107
  - audio, 4-104
  - composite video, 4-93
- RJ-45
  - ethernet, 4-147
  - ISDN, 4-147

## S

- SCSI
  - connection
    - Challenge S, 3-32
    - Indigo, 3-20
    - Indigo2, 3-29
    - Indy, 3-31
    - O2, 3-34, 3-35
    - OCTANE, 3-38
    - Onyx2, 3-53
    - Origin2000, 3-47
    - Personal IRIS, 3-10
    - single tower (diehard), 3-7
    - single tower (diehard2), 3-16, 3-17, 3-18
  - SCSI-2, 4-51
    - termination, 4-51
  - SCSI-2 (wide), 4-52
    - differential connector pinout, 4-54
    - single ended connector pinout, 4-53
  - SCSI-I, 4-49
    - connector pinout, 4-50
    - termination, 4-49
  - terminator
    - single tower (diehard), 3-7
  - ultra SCSI
    - connector pinout, 4-56
    - ultra SCSI (single ended), 4-55
  - serial device name, 4-8

- serial port
  - 4 pin mini-DIN power port, 4-7
    - connector drawing, 4-21
  - 4 pin mini-serial ports
    - sharing signals with powered peripheral port, 4-20
  - 8 pin DIN, 4-7
  - 8 pin mini-DIN, 4-6
    - connector drawing, 4-17
    - connector pinout (EIA-423 mode), 4-17
  - additional ports per cpu, 4-5
  - ASO, 4-5
  - CDSIO, 4-5
  - comparison of DB-9 pinouts, 4-10
  - connection
    - 12 slot twin tower, 3-3
    - 15 slot twin tower, 3-5
    - Challenge S, 3-32
    - eveready (EIA-232), 3-24
    - eveready (EIA-422), 3-24
    - Indigo, 3-20
    - Indigo2, 3-29
    - Indy, 3-31
    - O2, 3-34, 3-35
    - OCTANE, 3-38
    - Onyx2, 3-53
    - Origin200, 3-41
    - Origin2000, 3-47
    - Personal IRIS (4D/2x), 3-11
    - Personal IRIS (4D/3x), 3-12, 3-13
    - predator, 3-9
    - single tower (diehard), 3-7
    - single tower (diehard2), 3-17, 3-18
    - terminator rack (EIA-232), 3-27
    - terminator rack (EIA-422), 3-27
    - types of, 4-5
  - cross platform table of, 4-6
  - DB-9 (EIA-232)
    - connector drawing, 4-11
    - connector pinout, 4-11
  - DB-9 (EIA-422)
    - connector drawing, 4-13
    - connector pinout, 4-13
  - diagnostic, 4-5
  - EIA-423/422 switching, 4-17
  - eveready, 4-6
  - Indigo, 4-6
  - Indigo2, 4-6, 4-9
  - Indy, 4-6
  - max. data transfer rates, 4-9
  - naming, 4-8
  - O2, 4-6
  - OCTANE, 4-6
  - Onyx2, 4-6
  - Origin200, 4-6
  - Origin2000, 4-6
  - PC style, 3-34, 3-35, 3-41
  - Personal IRIS (PI), 4-6
  - powered peripheral port, 4-5, 4-20
    - 8 pin DIN, 4-7
  - powering external devices from, 4-8
  - predator, 4-6
  - sharing signals with powered peripheral port, 4-20
  - signal definitions, 4-10
  - single tower, 4-6
  - terminator, 4-6
  - three kinds of, 4-5
  - ttyd, 4-8
  - ttyf (flow), 4-8
  - tty (modem), 4-8
  - twin tower, 4-6
  - voltage levels, 4-8
- single tower
  - diehard
    - ethernet connection, 3-7
    - front & rear views, 3-6
    - I/O plate, 3-7
    - keyboard connection, 3-7
    - monitor output, 3-7
    - powered peripheral port, 3-7
    - SCSI connection, 3-7
    - SCSI terminator, 3-7
    - serial ports, 3-7
  - diehard2
    - drive sled, 3-16
    - ethernet connection, 3-17, 3-18
    - front & rear views, 3-15
    - I/O plate, 3-17, 3-18
    - keyboard connection, 3-17, 3-18
    - monitor output, 3-17, 3-18
    - powered peripheral port, 3-17, 3-18
    - SCSI connection, 3-16, 3-17, 3-18
    - serial ports, 3-17, 3-18
  - serial ports
    - maximum baud rate, 4-9
    - serial ports available, 4-6
- SMB
  - genlock, 4-87
- SMD, 4-45
  - connector pinout, 4-46
- software cpu, 1-2
  - discussion of, 5-2

- software tools
  - mail, 7-17
    - list of, 7-3
  - miscellaneous, 7-17
    - list of, 7-4
  - networking, 7-15
    - list of, 7-3
  - peripheral, 7-11
    - list of, 7-3
  - system hardware, 7-5
    - list of, 7-2
  - system software, 7-6
    - list of, 7-2
  - terminal, 7-10
    - list of, 7-2
  - user information, 7-10
    - list of, 7-2
- spaceball, 4-5
- speaker power connector
  - OCTANE, 3-38
  - Onyx2, 3-53
- stereo, 4-5
- stereo jack and plug
  - AES digital audio, 4-107
  - audio, 4-104
  - cpu interfaces, 4-109
- stereo sync, 4-89
  - connection
    - Indigo, 3-21
    - Indigo2, 3-29
    - Indy, 3-31
    - O2, 3-34, 3-35
    - OCTANE, 3-38
    - Onyx2, 3-54
    - Personal IRIS (4D/3x), 3-13
- stereoview, 4-5
- S-VGA
  - see HD-15
- S-video connection
  - Indy, 3-31
  - O2, 3-36
  - Onyx2, 3-54
  - terminator rack, 3-27
- swap ready output, 4-91
  - eveready, 3-24
  - Onyx2, 3-54
  - terminator rack, 3-27
- system controller
  - Onyx2 deskside, 3-50

## T

- termination
  - SCSI-I, 4-49
- terminator
  - genlock connection, 3-27
  - serial ports
    - maximum baud rate, 4-9
    - serial ports available, 4-6
- terminator rack
  - alpha output, 3-27
  - composite video output, 3-27
  - cpu interrupt connection, 3-27
  - ethernet connection, 3-27
  - frame grab output, 3-27
  - front & rear views, 3-25
  - keyboard connection, 3-27
  - monitor output connection, 3-27
  - parallel port connection, 3-27
  - powered peripheral port connection, 3-27
  - serial port connection (EIA-232), 3-27
  - serial port connection (EIA-422), 3-27
  - S-video output, 3-27
  - swap ready output, 3-27
- TFLU, 4-7
  - 4 Pin Mini-DIN power port, 4-21
  - powered peripheral port, 4-7
- top hat
  - colors, 2-1
  - definition of, 2-1
- ttyd, 4-8
- ttyf, 4-8
- ttym, 4-8
- twin tower
  - 12 slot
    - ESDI interface, 3-3
    - ethernet connection, 3-3
    - front & rear views, 3-2
    - I/O panel, 3-3
    - I/O plate, 3-3
    - keyboard connection, 3-3
    - monitor output, 3-3
    - powered peripheral port, 3-3
    - serial ports, 3-3

- 15 slot
  - disk interface (ESDI), 3-5
  - ethernet connection (AUI), 3-5
  - front & rear views, 3-4
  - I/O panel, 3-5
  - I/O plate, 3-5
  - keyboard connection, 3-5
  - monitor output, 3-5
  - powered peripheral port, 3-5
  - serial ports, 3-5
- serial ports
  - available, 4-6
  - maximum baud rate, 4-9

## V

- video
  - analog breakout box connection, 4-96
  - CCIR 601 parallel digital video, 4-98
  - CCIR 601 serial digital video, 4-97
  - component in/out, 4-97
  - composite in/out, 4-93
    - O2, 3-36
  - composite input
    - Indy, 3-31
  - composite output
    - eveready, 3-24
    - Onyx2, 3-54
  - composite video output
    - terminator rack, 3-27
  - connection
    - Indigo, 3-21
  - digital video connection
    - O2 (R10000), 3-35
    - O2 (R5000), 3-34
  - external video input connections, table of, 4-92
  - external video output connections, table of, 4-93
  - frame grab, 4-97
  - loopthru
    - Onyx2, 3-53
  - serial digital
    - Onyx2, 3-54
  - SGI digital video in/out, 4-99
    - connector pinout, 4-100
  - S-video connection
    - O2, 3-36
    - Onyx2, 3-54
  - S-video in/out, 4-94
  - S-video input
    - Indy, 3-31

- S-video output
  - eveready, 3-24
  - terminator rack, 3-27
  - sync loopthru, 4-97
- video interfaces
  - video, 4-92
- VME, 4-5, 4-111
  - 6U slot
    - Personal IRIS (4D/2x), 3-11
    - Personal IRIS (4D/3x), 3-12, 3-13
  - backplane jumpering, 4-114
  - P2 expansion, 4-119
    - Personal IRIS (4D/3x), 3-12, 3-13
  - serial port cards, 4-5
- VME (9U) backplane, 4-133
- VME32 (6U), 4-117
  - backplane jumpering, 4-117
  - power budget, 4-118
- VME32 (9U) bus, 4-114
- VME64 (9U), 4-121
- voltage levels
  - EIA-232, 4-8
  - EIA-422, 4-8
  - EIA-423, 4-8
  - serial ports, 4-8

## X

- XIO bus, 4-111, 4-132
  - slots
    - OCTANE, 3-38, 4-143
    - Onyx2, 4-144
    - Onyx2 deskside, 3-50
    - Onyx2 rack, 3-52
    - Origin2000, 4-144
    - Origin2000 deskside, 3-44
    - Origin2000 rack, 3-46

## Y

- Y cable for powered peripherals, 4-21

*I wanted this page blank*