

Index

A

Antenna library, subdirectory, 1-1
AWS product transmission format, B-1
Axis of Dillitation, 2-byte data format, 3-36

B

beam_psi_struct structure, 3-2
BITE command packet, A-11
BITE individual command, A-13
BITE packet, A-11

C

cappi_psi_struct structure, 3-2
Cartesian product, file format, 3-48
Catch_psi_struct structure, 3-2
Catch_results structure, 3-3
Chat-mode packet, A-14
color_scale_def structure, 3-3
Config library, subdirectory, 1-1
cross_psi_struct structure, 3-4

D

Data, display product-specific, 4-1
data compression algorithm, 3-50
data format, 3-1
 structure, 3-1
 tape, 3-54
 TIFF, 3-55
data type, constants, 3-56
data types, 3-36
DB_AXDIL2 constant, 3-57
DB_CDBZ constant, 3-56
DB_CDBZ2 constant, 3-56
DB_DEFORM2 constant, 3-57
DB_DIVERGE2 constant, 3-57
DB_FLIQUID2 constant, 3-57
DB_HDIR2 constant, 3-57

DB_HEIGHT constant, 3-56
DB_HVEL2 constant, 3-57
DB_OTHER constant, 3-57
DB_RAW constant, 3-57
DB_SHEAR constant, 3-57
DB_UDBZ constant, 3-56
DB_UDBZ2 constant, 3-56
DB_USER constant, 3-57
DB_VEL constant, 3-56
DB_VEL2 constant, 3-56
DB_VIL2 constant, 3-56
DB_VVEL2 constant, 3-57
DB_WIDTH constant, 3-56
DB_WIDTH2 constant, 3-56
DB_XHDR constant, 3-56
DB_ZDR constant, 3-56
DB_ZDR2 constant, 3-56
Deformation, data format, 3-37 , 3-45
Divergence, data format, 3-37
DSP library, subdirectory, 1-1
dsp_data_mask structure, 3-4

E

Echo Tops, data format, 3-38
extended_header format, ingest file, 3-36
extended_header_v0 structure, 3-5
 in ingest file data format, 3-36
extended_header_v1 structure, 3-5
 in ingest file data format, 3-36

F

FCAST product, file format, 3-48
fcast_psi_struct structure, 3-5
floating liquid format, ingest file, 2-byte,
 3-37

G

Gage_psi_struct structure, 3-6
Gage_results structure, 3-6

H

HKO picture types, B-3
HKO product transmission format, B-2

horizontal product type, 2–4
Horizontal wind direction, 2–byte data format, 3–38

I

Ingest file
 data format, 3–47
 naming convention, 3–47
ingest_configuration structure, 3–6
ingest_data_header structure, 3–7
ingest_header structure, 3–8

K

KDP, 2–byte data format, 3–39
KDP format, 3–38

L

LDR
 1–byte data format, 3–39
 2–byte data format, 3–40
legend, for user-generated products, 2–4
llwas_psi_struct structure, 3–30

M

Makefile, 1–5
max_psi_struct structure, 3–9

N

NDOP product, file format, 3–48
ndop_input structure, 3–9
ndop_psi_struct structure, 3–9
Ndop_results structure, 3–9
NORDRAD, area definition file, 2–6
NORDRAD_AREAS.DAT, 2–6

O

one_protected_region structure, 3–10

P

Phi
 1–byte data format, 3–40
 2–byte data format, 3–40
PHIdp
 1–byte data format, 3–40
 2–byte data format, 3–40
Pipes, 2–1
ppi_psi_struct structure, 3–10
Printer library, subdirectory, 1–1
Product
 examiner, 4–1
 file abbreviation, 4–1
Product file
 data format, 3–48
 naming convention, 3–52
product types, 2–4
product_configuration structure, 3–10
product_end structure, 3–12
product_hdr structure, 3–13
product_specific_info structure, 3–15
Productx utility, source code, 1–2
protect_setup structure, 3–16
 in SLINE product file, 3–51
 in TRACK product file, 3–51
 in WARN product file, 3–52

Q

Q–BITE interrogate packet, A–13
Q–BITE packet, A–12

R

radar control processor, protocol, A–1
rain_psi_struct structure, 3–16
rainfall rate format, 3–41
RAW product, file format, 3–48
 example, 3–50
raw_prod_bhdr structure, 3–16
 in RAW product file, 3–49
 in RAW product ingest data file, 3–49
raw_psi_struct structure, 3–17
ray_header structure, 3–17
Rays utility, source code, 1–2
RCV01 communication format, A–1

RCV01 serial format, A-3
RCV02 communication format, A-1
RCV02 serial format, A-5
RCV03 communication format, A-1
RCV03 serial format, A-7
reflectivity
 1-byte data format, 3-36
 2-byte data format, 3-36
rhi_psi_struct structure, 3-17
Rho
 1-byte data format, 3-41
 2-byte data format, 3-41
RhoHV
 1-byte data format, 3-42
 2-byte data format, 3-42
RTD formats, D-1
rti_psi_struct structure, 3-18

S

Serial control formats
 RCV01 format, A-3
 RCV02 format, A-5
 RCV03 format, A-7
 XMT01 format, A-4
 XMT02 format, A-6
shear_psi_struct structure, 3-18
SLINE product, file format, 3-51
sline_psi_struct structure, 3-18
sline_results structure, 3-19
 in SLINE product file, 3-51
SQI
 1-byte data format, 3-42
 2-byte data format, 3-43
sri_psi_struct structure, 3-21
status_antenna_info structure, 3-21
status_device_info structure, 3-22
status_message_info structure, 3-22
status_misc_info structure, 3-22
status_one_device structure, 3-23
status_one_process structure, 3-23
status_process_info structure, 3-23
status_results structure, 3-23
structure definitions, 3-1
structure_header structure, 3-24

T

tape, file format, 3-54
tape_header_record structure, 3-24
 in tape format, 3-54
task_calib_info structure, 3-24
task_configuration structure, 3-25
task_dsp_info structure, 3-26
 in the RAW product file, 3-49
task_dsp_mode_batch structure, 3-27
task_end_info structure, 3-27
task_file_scan_info structure, 3-27
task_manual_scan_info structure, 3-27
task_misc_info structure, 3-28
task_ppi_scan_info structure, 3-28
task_range_info structure, 3-28
task_rhi_scan_info structure, 3-29
task_scan_info structure, 3-29
task_sched_info structure, 3-29
TDWR product, file format, 3-51
tdwr_results structure, 3-30
 in TDWR file format, 3-51
text_results structure, 3-31
TIFF
 fields used by IRIS, 3-55
 file format, 3-55
Time, 2-byte data format, 3-43
time packet, A-11
top_psi_struct structure, 3-31
TRACK product, file format, 3-51
track_psi_struct structure, 3-31
track_results structure, 3-31
 in track file format, 3-51
TV subroutine library, subdirectory, 1-2

U

UF format, C-1
uf_data_header structure, C-3
uf_field_header structure, C-3
uf_field_specific_info structure, C-4
uf_mandatory_header structure, C-2
uf_optional_header structure, C-3
User library, subdirectory, 1-2
User Product Insert (UPI), 2-1

V

Velocity

1-byte data format, 3-43

1-byte unfolded format, 3-44

2-byte data format, 3-44

2-byte unfolded format, 3-44

vertical product type, 2-4

VIL, ingest file format, 2-byte, 3-44

vil_psi_struct structure, 3-32

Virtual TV library, subdirectory, 1-2

VVP product, file format, 3-52

vvp_psi_struct structure, 3-32

vvp_results structure, 3-33

in VVP product file, 3-52

W

WARN product, file format, 3-52

warn_psi_struct structure, 3-33

warning_results structure, 3-34 , 3-52

Width

1-byte data format, 3-45

2-byte data format, 3-45

WIND product, file format, 3-52

Wind shear, data format, 3-42

wind_psi_struct structure, 3-34

wind_results structure, 3-35 , 3-52

X

XMT01 communication format, A-1

XMT01 serial format, A-4

XMT02 communication format, A-1

XMT02 serial format, A-6

Y

ymds_time structure, 3-35

Z

ZDR

2-byte data format, 3-46

ingest file format, 1-byte, 3-46