A

Abbreviations
description, 1
ADD NAMES TO SET
padd_names_set—C function, 6
ANNOTATION TEXT RELATIVE
panno_text_rel—C function, 8
ANNOTATION TEXT RELATIVE 3
panno_text_rel3—C function, 10
APPLICATION DATA
pappl_data—C function, 12
ARCHIVE ALL STRUCTURES
par_all_structs—C function, 13
Archive Files
ARCHIVE ALL STRUCTURES, 13
ARCHIVE STRUCTURE NETWORKS, 14
ARCHIVE STRUCTURES, 16
CLOSE ARCHIVE FILE, 37
DELETE ALL STRUCTURES FROM ARCHIVE, 53
DELETE STRUCTURE NETWORKS FROM ARCHIVE, 61
DELETE STRUCTURES FROM ARCHIVE, 62
INQUIRE ALL CONFLICTING STRUCTURES, 177
INQUIRE ARCHIVE FILES, 181
INQUIRE ARCHIVE STATE VALUE, 182
INQUIRE CONFLICT RESOLUTION, 206
INQUIRE CONFLICTING STRUCTURES IN NETWORK, 207
OPEN ARCHIVE FILE, 531
RETRIEVE ALL STRUCTURES, 582
RETRIEVE PATHS TO ANCESTORS, 583
RETRIEVE PATHS TO DESCENDANTS, 585
RETRIEVE STRUCTURE IDENTIFIERS, 587
RETRIEVE STRUCTURE NETWORKS, 589
RETRIEVE STRUCTURES, 591
SET CONFLICT RESOLUTION, 644
ARCHIVE STRUCTURE NETWORKS
par_struct_nets—C function, 14
ARCHIVE STRUCTURES
par_structs—C function, 16
Aspect Source Flags
SET BACK INTERIOR COLOUR, 619
SET BACK INTERIOR REFLECTANCE EQUATION, 621
SET BACK INTERIOR SHADING METHOD, 623
SET BACK INTERIOR STYLE, 625
SET BACK INTERIOR STYLE INDEX, 627
SET BACK REFLECTANCE PROPERTIES, 629
SET CHARACTER EXPANSION FACTOR, 631
SET CHARACTER SPACING, 633
SET CURVE APPROXIMATION CRITERIA, 645
SET EDGE COLOUR INDEX, 657
SET EDGE FLAG, 659
SET EDGETYPE, 667
SET EDGEWIDTH SCALE FACTOR, 669
SET INDIVIDUAL ASF, 689
SET INTERIOR COLOUR INDEX, 693
SET INTERIOR SHADING METHOD, 702
SET INTERIOR STYLE, 704
SET INTERIOR STYLE INDEX, 706

SET LINETYPE, 715
SET LINEWIDTH SCALE FACTOR, 716
SET MARKER SIZE SCALE FACTOR, 723
SET MARKER TYPE, 724
SET POLYLINE COLOUR INDEX, 755
SET POLYLINE SHADING METHOD, 764
SET POLYMARKER COLOUR INDEX, 767
SET REFLECTANCE EQUATION, 773
SET REFLECTANCE PROPERTIES, 775
SET SURFACE APPROXIMATION CRITERIA, 782
SET TEXT COLOUR INDEX, 788
SET TEXT FONT, 789
SET TEXT PRECISION, 792

Attribute Representations
INQUIRE COLOUR MAPPING REPRESENTATION, 195
INQUIRE COLOUR REPRESENTATION, 204
INQUIRE DEPTH CUE REPRESENTATION, 273
INQUIRE EDGE REPRESENTATION, 290
INQUIRE EDGE REPRESENTATION PLUS, 292
INQUIRE INTERIOR REPRESENTATION, 341
INQUIRE INTERIOR REPRESENTATION PLUS, 343
INQUIRE LIGHT SOURCE REPRESENTATION, 351
INQUIRE PATTERN REPRESENTATION, 398
INQUIRE PATTERN REPRESENTATION PLUS, 400
INQUIRE POLYLINE REPRESENTATION, 414
INQUIRE POLYLINE REPRESENTATION PLUS, 416
INQUIRE POLYMARKER REPRESENTATION, 420
INQUIRE POLYMARKER REPRESENTATION PLUS, 422
INQUIRE TEXT REPRESENTATION, 494
INQUIRE TEXT REPRESENTATION PLUS, 496
INQUIRE VIEW REPRESENTATION, 505
SET COLOUR MAPPING REPRESENTATION, 638
SET COLOUR REPRESENTATION, 642
SET DEPTH CUE REPRESENTATION, 649
SET EDGE REPRESENTATION, 663
SET EDGE REPRESENTATION PLUS, 665
SET INTERIOR REPRESENTATION, 697
SET INTERIOR REPRESENTATION PLUS, 699
SET LIGHT SOURCE REPRESENTATION, 710
SET PATTERN REPRESENTATION, 742
SET PATTERN REPRESENTATION PLUS, 744
SET POLYLINE REPRESENTATION, 759
SET POLYLINE REPRESENTATION PLUS, 761
SET POLYMARKER REPRESENTATION, 769
SET POLYMARKER REPRESENTATION PLUS, 771
SET TEXT REPRESENTATION, 794
SET TEXT REPRESENTATION PLUS, 796
SET VIEW REPRESENTATION, 802
SET VIEW REPRESENTATION 3, 805

Attributes, Bundled
SET INDIVIDUAL ASF, 689

Attributes, Edge Attributes
SET EDGE COLOUR, 655
SET EDGE COLOUR INDEX, 657
SET EDGE FLAG, 659
SET EDGE INDEX, 661
SET EDGETYPE, 667
SET EDGEWIDTH SCALE FACTOR, 669

Attributes, Filled Area Interior Attributes
SET BACK INTERIOR COLOUR, 619
SET BACK INTERIOR REFLECTANCE EQUATION, 621
SET BACK INTERIOR SHADING METHOD, 623
SET BACK INTERIOR STYLE, 625
SET BACK INTERIOR STYLE INDEX, 627
SET BACK REFLECTANCE PROPERTIES, 629
SET FACE CULLING MODE, 676
SET FACE DISTINGUISHING MODE, 677
SET INTERIOR COLOUR, 691
SET INTERIOR COLOUR INDEX, 693
SET INTERIOR INDEX, 695
SET INTERIOR SHADING METHOD, 702
SET INTERIOR STYLE, 704
SET INTERIOR STYLE INDEX, 706
SET PATTERN REFERENCE POINT, 739
SET PATTERN REFERENCE POINT AND VECTORS, 740
SET PATTERN SIZE, 747
SET REFLECTANCE EQUATION, 773
SET REFLECTANCE PROPERTIES, 775
SET SURFACE APPROXIMATION CRITERIA, 782
Attributes, Line Attributes
SET CURVE APPROXIMATION CRITERIA, 645
SET LINETYPE, 715
SET LINEWIDTH SCALE FACTOR, 716
SET POLYLINE COLOUR, 753
SET POLYLINE COLOUR INDEX, 755
SET POLYLINE INDEX, 757
Attributes, Marker Attributes
SET MARKER SIZE SCALE FACTOR, 723
SET MARKER TYPE, 724
SET POLYMARKER COLOUR, 765
SET POLYMARKER COLOUR INDEX, 767
SET POLYMARKER INDEX, 768
Attributes, Modelling and Transformation Attributes
RESTORE MODELLING CLIPPING VOLUME, 581
SET GLOBAL TRANSFORMATION, 679
SET GLOBAL TRANSFORMATION 3, 681
SET LOCAL TRANSFORMATION, 717
SET LOCAL TRANSFORMATION 3, 719
SET MODELLING CLIPPING INDICATOR, 726
SET MODELLING CLIPPING VOLUME, 727
SET MODELLING CLIPPING VOLUME 3, 729
SET VIEW INDEX, 801
Attributes, Special Attributes
ADD NAMES TO SET, 6
REMOVE NAMES FROM SET, 563
SET COLOUR MAPPING INDEX, 637
SET COLOUR MAPPING REPRESENTATION, 638
SET DEPTH CUE INDEX, 647
SET DEPTH CUE REPRESENTATION, 649
SET HLHSR IDENTIFIER, 685
SET PICK IDENTIFIER, 750
Attributes, Text Attributes
SET ANNOTATION STYLE, 613
SET ANNOTATION TEXT ALIGNMENT, 614
SET ANNOTATION TEXT CHARACTER HEIGHT, 616
SET ANNOTATION TEXT CHARACTER UP VECTOR, 617

SET ANNOTATION TEXT PATH, 618
SET CHARACTER EXPANSION FACTOR, 631
SET CHARACTER HEIGHT, 632
SET CHARACTER SPACING, 633
SET CHARACTER UP VECTOR, 634
SET TEXT ALIGNMENT, 784
SET TEXT COLOUR, 786
SET TEXT COLOUR INDEX, 788
SET TEXT FONT, 789
SET TEXT INDEX, 790
SET TEXT PATH, 791
SET TEXT PRECISION, 792
AWAIT EVENT
pawait_event—C function, 18

B

BUILD TRANSFORMATION MATRIX
pbuild_tran_matrix—C function, 20
BUILD TRANSFORMATION MATRIX 3
pbuild_tran_matrix3—C function, 22
Bundled Attributes
SET INDIVIDUAL ASF, 689

C

C Binding Notes
description, 2
C functions
padd_names_set, 6
panno_text_rel, 8
panno_text_rel3, 10
pappl_data, 12
par_all_structs, 13
par_struct_nets, 14
par_structs, 16
pawait_event, 18
pbuild_tran_matrix, 20
pbuild_tran_matrix3, 22
pcell_array, 24
pcell_array3, 26
pcell_array3_plus, 28
pchange_struct_id, 31
pchange_struct_id_refs, 33
pchange_struct_refs, 35
pclose_ar_file, 37
pclose_phigs, 38
pclose_struct, 39
pclose_ws, 40
pcomp_fill_area_set_gnorm, 47
pcompose_matrix, 41
pcompose_matrix3, 42
pcompose_tran_matrix, 43
pcompose_tran_matrix3, 45
pcopy_all_elems_struct, 50
pcreate_store, 51
pdel_all_structs, 52
pdel_all_structs_ar, 53
pdel_elem, 54
pdel_elem_range, 55

pdel_elems_labels, 56
pdel_store, 57
pdel_struct, 58
pdel_struct_net, 59
pdel_struct_nets_ar, 61
pdel_structs_ar, 62
pelem_search, 63
pemergency_close_phigs, 67
pempty_struct, 68
perr_hand, 69
perr_log, 70
pescape, 71
peval_view_map_matrix, 83
peval_view_map_matrix3, 85
peval_view_ori_matrix, 88
peval_view_ori_matrix3, 90
pexec_struct, 92
pfill_area, 94
pfill_area_set, 98
pfill_area_set3, 100
pfill_area3, 96
pflush_events, 107
pgdp, 108
pgdp3, 110
pget_choice, 113
pget_loc, 115
pget_loc3, 117
pget_pick, 119
pget_string, 121
pget_stroke, 122
pget_stroke3, 124
pget_val, 126
pgse, 112
phigs_ws_type_create, 831
phigs_ws_type_destroy, 833
phigs_ws_type_get, 834
phigs_ws_type_set, 835
pincr_spa_search, 127
pincr_spa_search3, 130
pinit_choice, 133
pinit_choice3, 137
pinit_loc, 141
pinit_loc3, 144
pinit_pick, 147
pinit_pick3, 151
pinit_string, 155
pinit_string3, 158
pinit_stroke, 161
pinit_stroke3, 165
pinit_val, 169
pinit_val3, 173
pinq_all_conf_structs, 177
pinq_anno_facs, 179
pinq_ar_files, 181
pinq_ar_st, 182
pinq_choice_st, 183
pinq_choice_st3, 186
pinq_colr_facs, 189

pinq_colr_map_facs, 191
pinq_colr_map_method_facs, 193
pinq_colr_map_method_st, 199
pinq_colr_map_rep, 195
pinq_colr_model, 201
pinq_colr_model_facs, 202
pinq_colr_rep, 204
pinq_conf_res, 206
pinq_conf_structs_net, 207
pinq_cur_elem_content, 209
pinq_cur_elem_type_size, 230
pinq_curv_surf_facs, 233
pinq_dcue_facs, 272
pinq_dcue_rep, 273
pinq_def_choice_data, 236
pinq_def_choice_data3, 239
pinq_def_disp_upd_st, 242
pinq_def_loc_data, 244
pinq_def_loc_data3, 247
pinq_def_pick_data, 250
pinq_def_pick_data3, 252
pinq_def_string_data, 254
pinq_def_string_data3, 257
pinq_def_stroke_data, 260
pinq_def_stroke_data3, 263
pinq_def_val_data, 266
pinq_def_val_data3, 269
pinq_direct_colr_model_facs, 275
pinq_disp_space_size, 277
pinq_disp_space_size3, 279
pinq_disp_upd_st, 281
pinq_dyns_structs, 283
pinq_dyns_ws_attrs, 284
pinq_dyns_ws_attrs_plus, 286
pinq_edge_facs, 288
pinq_edge_rep, 290, 292
pinq_edit_mode, 294
pinq_elem_content, 295
pinq_elem_ptr, 316
pinq_elem_type_size, 317
pinq_err_hand_mode, 320
pinq_gdp, 321
pinq_gdp3, 323
pinq_gse_facs, 325
pinq_highl_filter, 327
pinq_hlhsr_id_facs, 329
pinq_hlhsr_mode, 331
pinq_hlhsr_mode_facs, 332
pinq_in_overf, 334
pinq_int_facs, 336
pinq_int_facs_plus, 338
pinq_int_rep, 341
pinq_int_rep_plus, 343
pinq_invis_filter, 347
pinq_light_src_facs, 349
pinq_light_src_rep, 351
pinq_line_facs, 410
pinq_line_facs_plus, 412

pinq_line_rep, 414
pinq_line_rep_plus, 416
pinq_list_avail_gdp, 354
pinq_list_avail_gdp3, 356
pinq_list_avail_ws_types, 358
pinq_list_colr_inds, 360
pinq_list_colr_map_inds, 361
pinq_list_dcue_inds, 363
pinq_list_edge_inds, 365
pinq_list_int_inds, 366
pinq_list_light_src_inds, 368
pinq_list_line_inds, 372
pinq_list_marker_inds, 374
pinq_list_pat_inds, 370
pinq_list_text_inds, 376
pinq_list_view_inds, 378
pinq_loc_st, 380
pinq_loc_st3, 383
pinq_marker_facs, 418
pinq_marker_rep, 420
pinq_marker_rep_plus, 422
pinq_model_clip_facs, 386
pinq_more_simult_events, 387
pinq_num_avail_in, 389
pinq_num_disp_pris, 391
pinq_open_struct, 392
pinq_pat_facs, 397
pinq_pat_rep, 398
pinq_pat_rep_plus, 400
pinq_paths_ances, 393
pinq_paths_descs, 395
pinq_phigs_facs, 402
pinq_pick_st, 404
pinq_pick_st3, 407
pinq_posted_structs, 424
pinq_pred_colr_map_rep, 426
pinq_pred_colr_rep, 429
pinq_pred_dcue_rep, 431
pinq_pred_edge_rep, 433
pinq_pred_edge_rep_plus, 435
pinq_pred_int_rep, 437
pinq_pred_int_rep_plus, 439
pinq_pred_light_src_rep, 443
pinq_pred_line_rep, 452
pinq_pred_line_rep_plus, 454
pinq_pred_marker_rep, 456
pinq_pred_marker_rep_plus, 458
pinq_pred_pat_rep, 446
pinq_pred_pat_rep_plus, 448
pinq_pred_text_rep, 460
pinq_pred_text_rep_plus, 462
pinq_pred_view_rep, 464
pinq_rendering_colr_model_facs, 466
pinq_set_open_ws, 468
pinq_string_st, 472
pinq_string_st3, 475
pinq_stroke_st, 478
pinq_stroke_st3, 481

pinq_struct_ids, 484
pinq_struct_st, 486
pinq_struct_status, 487
pinq_sys_st, 488
pinq_text_extent, 489
pinq_text_facs, 492
pinq_text_rep, 494
pinq_text_rep_plus, 496
pinq_val_st, 498
pinq_val_st3, 501
pinq_view_facs, 504
pinq_view_rep, 505
pinq_ws_cat, 507
pinq_ws_class, 508
pinq_ws_conn_type, 509
pinq_ws_st, 515
pinq_ws_st_table, 511
pinq_ws_tran, 516
pinq_ws_tran3, 518
pinq_wss_posted, 470
plabel, 520
pmessage, 521
pnuni_bsp_curv, 522
pnuni_bsp_surf, 525
poffset_elem_ptr, 530
popen_ar_file, 531
popen_phigs, 533
popen_struct, 535
popen_ws, 537
popen_xphigs, 540
ppolyline, 543
ppolyline_set3_data, 547
ppolyline3, 545
ppolymarker, 550
ppolymarker3, 552
ppost_struct, 554
pquad_mesh3_data, 556
predraw_all_structs, 561
premove_names_set, 563
preq_choice, 565
preq_loc, 567
preq_loc3, 569
preq_pick, 571
preq_string, 573
preq_stroke, 575
preq_stroke3, 577
preq_val, 579
prestore_model_clip_vol, 581
pret_all_structs, 582
pret_paths_ances, 583
pret_paths_descs, 585
pret_struct_ids, 587
pret_struct_nets, 589
pret_structs, 591
protate, 593
protate_x, 594
protate_y, 595
protate_z, 596

psample_choice, 597
psample_loc, 599
psample_loc3, 601
psample_pick, 603
psample_string, 605
psample_stroke, 606
psample_stroke3, 608
psample_val, 610
pscale, 611
pscale3, 612
pset_anno_align, 614
pset_anno_char_ht, 616
pset_anno_char_up_vec, 617
pset_anno_path, 618
pset_anno_style, 613
pset_back_int_colr, 619
pset_back_int_refl_eqn, 621
pset_back_int_shad_meth, 623
pset_back_int_style, 625
pset_back_int_style_ind, 627
pset_back_refl_props, 629
pset_char_expan, 631
pset_char_ht, 632
pset_char_space, 633
pset_char_up_vec, 634
pset_choice_mode, 635
pset_colr_map_rep, 638
pset_colr_model, 641
pset_colr_rep, 642
pset_conf_res, 644
pset_curv_approx, 645
pset_dcue_ind, 647
pset_dcue_rep, 649
pset_disp_upd_st, 652
pset_edge_colr, 655
pset_edge_colr_ind, 657
pset_edge_flag, 659
pset_edge_ind, 661
pset_edge_rep, 663
pset_edge_rep_plus, 665
pset_edgetype, 667
pset_edgewidth, 669
pset_edit_mode, 671
pset_elem_ptr, 672
pset_elem_ptr_label, 673
pset_err_hand_mode, 675
pset_face_cull_mode, 676
pset_face_disting_mode, 677
pset_global_tran, 679
pset_global_tran3, 681
pset_highl_filter, 683
pset_hlhsr_id, 685
pset_hlhsr_mode, 687
pset_indiv_asf, 689
pset_int_colr, 691
pset_int_colr_ind, 693
pset_int_ind, 695
pset_int_rep, 697

pset_int_rep_plus, 699
pset_int_shad_meth, 702
pset_int_style, 704
pset_int_style_ind, 706
pset_invis_filter, 708
pset_light_src_rep, 710
pset_light_src_state, 713
pset_line_colr, 753
pset_line_colr_ind, 755
pset_line_ind, 757
pset_line_rep, 759
pset_line_rep_plus, 761
pset_line_shad_meth, 764
pset_linetype, 715
pset_linewidth, 716
pset_loc_mode, 721
pset_local_tran, 717
pset_local_tran3, 719
pset_marker_colr, 765
pset_marker_colr_ind, 767
pset_marker_ind, 768
pset_marker_rep, 769
pset_marker_rep_plus, 771
pset_marker_size, 723
pset_marker_type, 724
pset_model_clip_ind, 726
pset_model_clip_vol, 727
pset_model_clip_vol3, 729
pset_of_fill_area_set3_data, 731
pset_para_surf_characs, 737
pset_pat_ref_point, 739
pset_pat_ref_point_vecs, 740
pset_pat_rep, 742
pset_pat_rep_plus, 744
pset_pat_size, 747
pset_pick_filter, 748
pset_pick_id, 750
pset_pick_mode, 751
pset_refl_eqn, 773
pset_refl_props, 775
pset_rendering_colr_model, 777
pset_string_mode, 778
pset_stroke_mode, 780
pset_surf_approx, 782
pset_text_align, 784
pset_text_colr, 786
pset_text_colr_ind, 788
pset_text_font, 789
pset_text_ind, 790
pset_text_path, 791
pset_text_prec, 792
pset_text_rep, 794
pset_text_rep_plus, 796
pset_val_mode, 799
pset_view_ind, 801
pset_view_rep, 802
pset_view_rep3, 805
pset_view_tran_in_pri, 808

pset_ws_vp, 810
pset_ws_vp3, 812
pset_ws_win, 814
pset_ws_win3, 816
ptext, 818
ptext3, 820
ptran_point, 822
ptran_point3, 823
ptranslate, 825
ptranslate3, 826
punpost_all_structs, 827
punpost_struct, 828
pupd_ws, 829
CELL ARRAY
pcell_array—C function, 24
CELL ARRAY 3
pcell_array3—C function, 26
CELL ARRAY 3 PLUS, 28
pcell_array3_plus—C function, 28
CHANGE STRUCTURE IDENTIFIER
pchange_struct_id—C function, 31
CHANGE STRUCTURE IDENTIFIER AND REFERENCES
pchange_struct_id_refs—C function, 33
CHANGE STRUCTURE REFERENCES
pchange_struct_refs—C function, 35
Character Sets
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
Choice Input Devices
GET CHOICE, 113
INITIALIZE CHOICE, 133
INITIALIZE CHOICE 3, 137
INQUIRE CHOICE DEVICE STATE, 183
INQUIRE DEFAULT CHOICE DEVICE DATA, 236
INQUIRE DEFAULT CHOICE DEVICE DATA 3, 239
REQUEST CHOICE, 565
SAMPLE CHOICE, 597
SET CHOICE MODE, 635
CLOSE ARCHIVE FILE
pclose_ar_file—C function, 37
CLOSE PHIGS
pclose_phigs—C function, 38
CLOSE STRUCTURE
pclose_struct—C function, 39
CLOSE WORKSTATION
pclose_ws—C function, 40
COLOUR, 840
Colour
COLOUR, 840
INQUIRE COLOUR FACILITIES, 189
INQUIRE COLOUR MAPPING METHOD FACILITIES, 193
INQUIRE COLOUR MODEL, 201
INQUIRE COLOUR MODEL FACILITIES, 202
INQUIRE COLOUR REPRESENTATION, 204
INQUIRE DIRECT COLOUR MODEL FACILITIES, 275
INQUIRE LIST OF COLOUR INDICES, 360
INQUIRE PREDEFINED COLOUR REPRESENTATION, 429

SET BACK INTERIOR COLOUR, 619
SET COLOUR MODEL, 641
SET COLOUR REPRESENTATION, 642
SET EDGE COLOUR, 655
SET EDGE COLOUR INDEX, 657
SET INTERIOR COLOUR, 691
SET INTERIOR COLOUR INDEX, 693
SET POLYLINE COLOUR, 753
SET POLYLINE COLOUR INDEX, 755
SET POLYMARKER COLOUR, 765
SET POLYMARKER COLOUR INDEX, 767
SET TEXT COLOUR, 786
SET TEXT COLOUR INDEX, 788
Colour Mapping
INQUIRE COLOUR MAPPING REPRESENTATION, 195
INQUIRE LIST OF COLOUR MAPPING INDICES, 361
INQUIRE PREDEFINED COLOUR MAPPING REPRESENTATION, 426
SET COLOUR MAPPING INDEX, 637
Colour Model
SET RENDERING COLOUR MODEL, 777
COMPOSE MATRIX
pcompose_matrix—C function, 41
COMPOSE MATRIX 3
pcompose_matrix3—C function, 42
COMPOSE TRANSFORMATION MATRIX
pcompose_tran_matrix—C function, 43
COMPOSE TRANSFORMATION MATRIX 3
pcompose_tran_matrix3—C function, 45
COMPUTE FILL AREA SET GEOMETRIC NORMAL
pcomp_fill_area_set_gnorm—C function, 47
COPY ALL ELEMENTS FROM STRUCTURE
pcopy_all_elems_struct—C function, 50
CREATE STORE, 51
pcreate_store—C function, 51
Current Element Pointer
INQUIRE ELEMENT POINTER, 316
OFFSET ELEMENT POINTER, 530
SET ELEMENT POINTER, 672
SET ELEMENT POINTER AT LABEL, 673
Cursors
WORKSTATION TYPE SET, 835

D

DELETE ALL STRUCTURES
pdel_all_structs—C function, 52
DELETE ALL STRUCTURES FROM ARCHIVE
pdel_all_structs_ar—C function, 53
DELETE ELEMENT
pdel_elem—C function, 54
DELETE ELEMENT RANGE
pdel_elem_range—C function, 55
DELETE ELEMENTS BETWEEN LABELS
pdel_elems_labels—C function, 56
DELETE STORE, 57
pdel_store—C function, 57
DELETE STRUCTURE
pdel_struct—C function, 58

DELETE STRUCTURE NETWORK
pdel_struct_net—C function, 59
DELETE STRUCTURE NETWORKS FROM ARCHIVE
pdel_struct_nets_ar—C function, 61
DELETE STRUCTURES FROM ARCHIVE
pdel_structs_ar—C function, 62
Depth Cueing
INQUIRE DEPTH CUE REPRESENTATION, 273
INQUIRE LIST OF DEPTH CUE INDICES, 363
INQUIRE PREDEFINED DEPTH CUE REPRESENTATION, 431
SET COLOUR MAPPING REPRESENTATION, 638
SET DEPTH CUE INDEX, 647
SET DEPTH CUE REPRESENTATION, 649
DESCRIPTION TABLE, 842
Detectability
ADD NAMES TO SET, 6
INQUIRE PICK DEVICE STATE, 404
REMOVE NAMES FROM SET, 563
SET PICK FILTER, 748
Display Priority
INQUIRE NUMBER OF DISPLAY PRIORITIES SUPPORTED, 391
INQUIRE POSTED STRUCTURES, 424
POST STRUCTURE, 554
Double Buffering
WORKSTATION TYPE SET, 835
Dynamic Modifications
INQUIRE DYNAMICS OF STRUCTURES, 283
INQUIRE DYNAMICS OF WORKSTATION ATTRIBUTES, 284
INQUIRE DYNAMICS OF WORKSTATION PLUS, 286
PHIGS WORKSTATION DESCRIPTION TABLE, 847
SET DISPLAY UPDATE STATE, 652

E

Edge Attributes
SET EDGE COLOUR, 655
SET EDGE COLOUR INDEX, 657
SET EDGE FLAG, 659
SET EDGE INDEX, 661
SET EDGETYPE, 667
SET EDGEWIDTH SCALE FACTOR, 669
Editing
DELETE ELEMENT, 54
DELETE ELEMENT RANGE, 55
DELETE ELEMENTS BETWEEN LABELS, 56
SET DISPLAY UPDATE STATE, 652
SET EDIT MODE, 671
SET ELEMENT POINTER, 672
SET ELEMENT POINTER AT LABEL, 673
Element Pointer
INQUIRE ELEMENT POINTER, 316
OFFSET ELEMENT POINTER, 530
SET ELEMENT POINTER, 672
SET ELEMENT POINTER AT LABEL, 673
ELEMENT SEARCH
pelem_search—C function, 63
Elements
APPLICATION DATA, 12

EXECUTE STRUCTURE, 92
GENERALIZED DRAWING PRIMITIVE, 108, 110
GENERALIZED STRUCTURE ELEMENT, 112
LABEL, 520
Elements, attributes, see *Attributes*
Elements, primitives, see *Primitives*
Elements, transformations, see *Transformation Matrix*
EMERGENCY CLOSE PHIGS
`pemergency_close_phigs`—C function, 67
EMPTY STRUCTURE
`pempty_struct`—C function, 68
ERROR HANDLING
`perr_hand`—C function, 69
ERROR LOGGING
`perr_log`—C function, 70
Error Synchronization
ESCAPE -1, 73
Errors
ERROR HANDLING, 69
ERROR LOGGING, 70
ESCAPE -1, 73
OPEN PHIGS, 533
OPEN XPHIGS, 540
SET ERROR HANDLING, 674
SET ERROR HANDLING MODE, 675
ESCAPE
pescape — C function, 71
`pescape`—C function, 71
EVALUATE VIEW MAPPING MATRIX
`peval_view_map_matrix`—C function, 83
EVALUATE VIEW MAPPING MATRIX 3
`peval_view_map_matrix3`—C function, 85
EVALUATE VIEW ORIENTATION MATRIX
`peval_view_ori_matrix`—C function, 88
EVALUATE VIEW ORIENTATION MATRIX 3
`peval_view_ori_matrix3`—C function, 90
Event Input Mode
AWAIT EVENT, 18
FLUSH DEVICE EVENTS, 107
GET CHOICE, 113
GET LOCATOR, 115
GET PICK, 119
GET STRING, 121
GET STROKE 3, 124
GET VALUATOR, 126
INQUIRE MORE SIMULTANEOUS EVENTS, 387
EXECUTE STRUCTURE
`pexec_struct`—C function, 92
Extensions to the PHIGS Standard
description, 2

F

FILL AREA
`pfill_area`—C function, 94
FILL AREA 3
`pfill_area3`—C function, 96
FILL AREA SET

`pfill_area_set`—C function, 98
FILL AREA SET 3
`pfill_area_set3`—C function, 100
Filled Area Interior Attributes
SET BACK INTERIOR COLOUR, 619
SET BACK INTERIOR REFLECTANCE EQUATION, 621
SET BACK INTERIOR SHADING METHOD, 623
SET BACK INTERIOR STYLE, 625
SET BACK INTERIOR STYLE INDEX, 627
SET BACK REFLECTANCE PROPERTIES, 629
SET FACE CULLING MODE, 676
SET FACE DISTINGUISHING MODE, 677
SET INTERIOR COLOUR, 691
SET INTERIOR COLOUR INDEX, 693
SET INTERIOR INDEX, 695
SET INTERIOR SHADING METHOD, 702
SET INTERIOR STYLE, 704
SET INTERIOR STYLE INDEX, 706
SET PATTERN REFERENCE POINT, 739
SET PATTERN REFERENCE POINT AND VECTORS, 740
SET PATTERN SIZE, 747
SET REFLECTANCE EQUATION, 773
SET REFLECTANCE PROPERTIES, 775
SET SURFACE APPROXIMATION CRITERIA, 782
Filled Area Primitives
FILL AREA, 94
FILL AREA 3, 96
FILL AREA SET, 98
FILL AREA SET 3, 100
FILL AREA SET 3 WITH DATA, 102
NON-UNIFORM B-SPLINE SURFACE, 525
QUADRILATERAL MESH 3 WITH DATA, 556
SET OF FILL AREA SET 3 WITH DATA, 731
FLUSH DEVICE EVENTS
`pflush_events`—C function, 107
Fonts
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
SET TEXT FONT, 789
SET TEXT REPRESENTATION, 794

G

GENERALIZED DRAWING PRIMITIVE
`pgdp`—C function, 108
GENERALIZED DRAWING PRIMITIVE 3
`pgdp3`—C function, 110
Generalized Drawing Primitives
GENERALIZED DRAWING PRIMITIVE, 108
INQUIRE GENERALIZED DRAWING PRIMITIVE, 321
INQUIRE LIST OF AVAILABLE GENERALIZED DRAWING PRIMITIVES, 354
PHIGS WORKSTATION DESCRIPTION TABLE, 847
Generalized Drawing Primitives 3
INQUIRE GENERALIZED DRAWING PRIMITIVE 3, 323
INQUIRE LIST OF AVAILABLE GENERALIZED DRAWING PRIMITIVES 3, 356
PHIGS WORKSTATION DESCRIPTION TABLE, 847
GENERALIZED STRUCTURE ELEMENT
`pgse`—C function, 112

Generalized Structure Elements
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
INQUIRE GENERALIZED STRUCTURE ELEMENT FACILITIES, 325
PHIGS WORKSTATION DESCRIPTION TABLE, 847
GET CHOICE
`pget_choice`—C function, 113
GET LOCATOR
`pget_loc`—C function, 115
GET LOCATOR 3
`pget_loc3`—C function, 117
GET PICK
`pget_pick`—C function, 119
GET STRING
`pget_string`—C function, 121
GET STROKE
`pget_stroke`—C function, 122
GET STROKE 3
`pget_stroke3`—C function, 124
GET VALUATOR
`pget_val`—C function, 126
GSE
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112

H

Hidden Line/Hidden Surface Removal
INQUIRE HLHSR IDENTIFIER FACILITIES, 329
INQUIRE HLHSR MODE, 331
INQUIRE HLHSR MODE FACILITIES, 332
SET HLHSR IDENTIFIER, 685
SET HLHSR MODE, 687
Highlighting
ADD NAMES TO SET, 6
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
INQUIRE HIGHLIGHTING FILTER, 327
REMOVE NAMES FROM SET, 563
SET HIGHLIGHTING FILTER, 683
HLHSR
INQUIRE HLHSR IDENTIFIER FACILITIES, 329
INQUIRE HLHSR MODE, 331
INQUIRE HLHSR MODE FACILITIES, 332
SET HLHSR IDENTIFIER, 685
SET HLHSR MODE, 687

I

Implementation-Specific Functions
ESCAPE, 71
GENERALIZED DRAWING PRIMITIVE, 108, 110
GENERALIZED STRUCTURE ELEMENT, 112
WORKSTATION TYPE CREATE, 831
WORKSTATION TYPE DESTROY, 833
WORKSTATION TYPE GET, 834
WORKSTATION TYPE SET, 835
Include Files
description, 2

INCREMENTAL SPATIAL SEARCH
`pincr_spa_search`—C function, 127
INCREMENTAL SPATIAL SEARCH 3
`pincr_spa_search3`—C function, 130
INITIALIZE CHOICE
`pinit_choice`—C function, 133
INITIALIZE CHOICE 3
`pinit_choice3`—C function, 137
INITIALIZE LOCATOR
`pinit_loc`—C function, 141
INITIALIZE LOCATOR 3
`pinit_loc3`—C function, 144
INITIALIZE PICK
`pinit_pick`—C function, 147
INITIALIZE PICK 3
`pinit_pick3`—C function, 151
INITIALIZE STRING
`pinit_string`—C function, 155
INITIALIZE STRING 3
`pinit_string3`—C function, 158
INITIALIZE STROKE
`pinit_stroke`—C function, 161
INITIALIZE STROKE 3
`pinit_stroke3`—C function, 165
INITIALIZE VALUATOR
`pinit_val`—C function, 169
INITIALIZE VALUATOR 3
`pinit_val3`—C function, 173
Input Modes
AWAIT EVENT, 18
FLUSH DEVICE EVENTS, 107
GET CHOICE, 113
GET LOCATOR, 115
GET PICK, 119
GET STRING, 121
GET STROKE 3, 124
GET VALUATOR, 126
INQUIRE MORE SIMULTANEOUS EVENTS, 387
REQUEST CHOICE, 565
REQUEST LOCATOR 3, 569
REQUEST PICK, 571
REQUEST STRING, 573
REQUEST STROKE 3, 577
REQUEST VALUATOR, 579
SAMPLE CHOICE, 597
SAMPLE LOCATOR 3, 601
SAMPLE PICK, 603
SAMPLE STRING, 605
SAMPLE STROKE 3, 608
SAMPLE VALUATOR, 610
SET CHOICE MODE, 635
SET LOCATOR MODE, 721
SET PICK MODE, 751
SET STRING MODE, 778
SET STROKE MODE, 780
SET VALUATOR MODE, 799
INQUIRE ALL CONFLICTING STRUCTURES

`pinq_all_conf_structs`—C function, 177
INQUIRE ANNOTATION FACILITIES
`pinq_anno_facs`—C function, 179
INQUIRE ARCHIVE FILES
`pinq_ar_files`—C function, 181
INQUIRE ARCHIVE STATE VALUE
`pinq_ar_st`—C function, 182
INQUIRE CHOICE DEVICE STATE
`pinq_choice_st`—C function, 183
INQUIRE CHOICE DEVICE STATE 3
`pinq_choice_st3`—C function, 186
INQUIRE COLOUR FACILITIES
`pinq_colr_facs`—C function, 189
INQUIRE COLOUR MAPPING FACILITIES
`pinq_colr_map_facs`—C function, 191
INQUIRE COLOUR MAPPING METHOD FACILITIES
`pinq_colr_map_method_facs`—C function, 193
INQUIRE COLOUR MAPPING REPRESENTATION
`pinq_colr_map_rep`—C function, 195
INQUIRE COLOUR MAPPING STATE
`pinq_colr_map_method_st`—C function, 199
INQUIRE COLOUR MODEL
`pinq_colr_model`—C function, 201
INQUIRE COLOUR MODEL FACILITIES
`pinq_colr_model_facs`—C function, 202
INQUIRE COLOUR REPRESENTATION
`pinq_colr_rep`—C function, 204
INQUIRE CONFLICT RESOLUTION
`pinq_conf_res`—C function, 206
INQUIRE CONFLICTING STRUCTURES IN NETWORK
`pinq_conf_structs_net`—C function, 207
INQUIRE CURRENT ELEMENT CONTENT
`pinq_cur_elem_content`—C function, 209
INQUIRE CURRENT ELEMENT TYPE AND SIZE
`pinq_cur_elem_type_size`—C function, 230
INQUIRE CURVE AND SURFACE FACILITIES
`pinq_curv_surf_facs`—C function, 233
INQUIRE DEFAULT CHOICE DEVICE DATA
`pinq_def_choice_data`—C function, 236
INQUIRE DEFAULT CHOICE DEVICE DATA 3
`pinq_def_choice_data3`—C function, 239
INQUIRE DEFAULT DISPLAY UPDATE STATE
`pinq_def_disp_upd_st`—C function, 242
INQUIRE DEFAULT LOCATOR DEVICE DATA
`pinq_def_loc_data`—C function, 244
INQUIRE DEFAULT LOCATOR DEVICE DATA 3
`pinq_def_loc_data3`—C function, 247
INQUIRE DEFAULT PICK DEVICE DATA
`pinq_def_pick_data`—C function, 250
INQUIRE DEFAULT PICK DEVICE DATA 3
`pinq_def_pick_data3`—C function, 252
INQUIRE DEFAULT STRING DEVICE DATA
`pinq_def_string_data`—C function, 254
INQUIRE DEFAULT STRING DEVICE DATA 3
`pinq_def_string_data3`—C function, 257
INQUIRE DEFAULT STROKE DEVICE DATA

`pinq_def_stroke_data`—C function, 260
INQUIRE DEFAULT STROKE DEVICE DATA 3
`pinq_def_stroke_data3`—C function, 263
INQUIRE DEFAULT VALUATOR DEVICE DATA
`pinq_def_val_data`—C function, 266
INQUIRE DEFAULT VALUATOR DEVICE DATA 3
`pinq_def_val_data3`—C function, 269
INQUIRE DEPTH CUE FACILITIES
`pinq_dcue_facs`—C function, 272
INQUIRE DEPTH CUE REPRESENTATION
`pinq_dcue_rep`—C function, 273
INQUIRE DIRECT COLOUR MODEL FACILITIES
`pinq_direct_colr_model_facs`—C function, 275
INQUIRE DISPLAY SPACE SIZE
`pinq_disp_space_size`—C function, 277
INQUIRE DISPLAY SPACE SIZE 3
`pinq_disp_space_size3`—C function, 279
INQUIRE DISPLAY UPDATE STATE
`pinq_disp_upd_st`—C function, 281
INQUIRE DYNAMICS OF STRUCTURES
`pinq_dyns_structs`—C function, 283
INQUIRE DYNAMICS OF WORKSTATION ATTRIBUTES
`pinq_dyns_ws_attrs`—C function, 284
INQUIRE DYNAMICS OF WORKSTATION PLUS
`pinq_dyns_ws_attrs_plus`—C function, 286
INQUIRE EDGE FACILITIES
`pinq_edge_facs`—C function, 288
INQUIRE EDGE REPRESENTATION
`pinq_edge_rep`—C function, 290
INQUIRE EDGE REPRESENTATION PLUS
`pinq_edge_rep`—C function, 292
INQUIRE EDIT MODE
`pinq_edit_mode`—C function, 294
INQUIRE ELEMENT CONTENT
`pinq_elem_content`—C function, 295
INQUIRE ELEMENT POINTER
`pinq_elem_ptr`—C function, 316
INQUIRE ELEMENT TYPE AND SIZE
`pinq_elem_type_size`—C function, 317
INQUIRE ERROR HANDLING MODE
`pinq_err_hand_mode`—C function, 320
INQUIRE GENERALIZED DRAWING PRIMITIVE
`pinq_gdp`—C function, 321
INQUIRE GENERALIZED DRAWING PRIMITIVE 3
`pinq_gdp3`—C function, 323
INQUIRE GENERALIZED STRUCTURE ELEMENT FACILITIES
`pinq_gse_facs`—C function, 325
INQUIRE HIGHLIGHTING FILTER
`pinq_highl_filter`—C function, 327
INQUIRE HLHSR IDENTIFIER FACILITIES
`pinq_hlhsr_id_facs`—C function, 329
INQUIRE HLHSR MODE
`pinq_hlhsr_mode`—C function, 331
INQUIRE HLHSR MODE FACILITIES
`pinq_hlhsr_mode_facs`—C function, 332
INQUIRE INPUT QUEUE OVERFLOW

`pinq_in_overf`—C function, 334
INQUIRE INTERIOR FACILITIES
`pinq_int_facs`—C function, 336
INQUIRE INTERIOR FACILITIES PLUS
`pinq_int_facs_plus`—C function, 338
INQUIRE INTERIOR REPRESENTATION
`pinq_int_rep`—C function, 341
INQUIRE INTERIOR REPRESENTATION PLUS
`pinq_int_rep_plus`—C function, 343
INQUIRE INVISIBILITY FILTER
`pinq_invis_filter`—C function, 347
INQUIRE LIGHT SOURCE FACILITIES
`pinq_light_src_facs`—C function, 349
INQUIRE LIGHT SOURCE REPRESENTATION
`pinq_light_src_rep`—C function, 351
INQUIRE LIST OF AVAILABLE GENERALIZED DRAWING PRIMITIVES
`pinq_list_avail_gdp`—C function, 354
INQUIRE LIST OF AVAILABLE GENERALIZED DRAWING PRIMITIVES 3
`pinq_list_avail_gdp3`—C function, 356
INQUIRE LIST OF AVAILABLE WORKSTATION TYPES
`pinq_list_avail_ws_types`—C function, 358
INQUIRE LIST OF COLOUR INDICES
`pinq_list_colr_inds`—C function, 360
INQUIRE LIST OF COLOUR MAPPING INDICES
`pinq_list_colr_map_inds`—C function, 361
INQUIRE LIST OF DEPTH CUE INDICES
`pinq_list_dcue_inds`—C function, 363
INQUIRE LIST OF EDGE INDICES
`pinq_list_edge_inds`—C function, 365
INQUIRE LIST OF INTERIOR INDICES
`pinq_list_int_inds`—C function, 366
INQUIRE LIST OF LIGHT SOURCE INDICES
`pinq_list_light_src_inds`—C function, 368
INQUIRE LIST OF PATTERN INDICES
`pinq_list_pat_inds`—C function, 370
INQUIRE LIST OF POLYLINE INDICES
`pinq_list_line_inds`—C function, 372
INQUIRE LIST OF POLYMARKER INDICES
`pinq_list_marker_inds`—C function, 374
INQUIRE LIST OF TEXT INDICES
`pinq_list_text_inds`—C function, 376
INQUIRE LIST OF VIEW INDICES
`pinq_list_view_inds`—C function, 378
INQUIRE LOCATOR DEVICE STATE
`pinq_loc_st`—C function, 380
INQUIRE LOCATOR DEVICE STATE 3
`pinq_loc_st3`—C function, 383
INQUIRE MODELLING CLIPPING FACILITIES
`pinq_model_clip_facs`—C function, 386
INQUIRE MORE SIMULTANEOUS EVENTS
`pinq_more_simult_events`—C function, 387
INQUIRE NUMBER OF AVAILABLE LOGICAL INPUT DEVICES
`pinq_num_avail_in`—C function, 389
INQUIRE NUMBER OF DISPLAY PRIORITIES SUPPORTED
`pinq_num_disp_pris`—C function, 391
INQUIRE OPEN STRUCTURE

`pinq_open_struct`—C function, 392
INQUIRE PATHS TO ANCESTORS
`pinq_paths_ances`—C function, 393
INQUIRE PATHS TO DESCENDANTS
`pinq_paths_descs`—C function, 395
INQUIRE PATTERN FACILITIES
`pinq_pat_facs`—C function, 397
INQUIRE PATTERN REPRESENTATION
`pinq_pat_rep`—C function, 398
INQUIRE PATTERN REPRESENTATION PLUS
`pinq_pat_rep_plus`—C function, 400
INQUIRE PHIGS FACILITIES
`pinq_phigs_facs`—C function, 402
INQUIRE PICK DEVICE STATE
`pinq_pick_st`—C function, 404
INQUIRE PICK DEVICE STATE 3
`pinq_pick_st3`—C function, 407
INQUIRE POLYLINE FACILITIES
`pinq_line_facs`—C function, 410
INQUIRE POLYLINE FACILITIES PLUS
`pinq_line_facs_plus`—C function, 412
INQUIRE POLYLINE REPRESENTATION
`pinq_line_rep`—C function, 414
INQUIRE POLYLINE REPRESENTATION PLUS
`pinq_line_rep_plus`—C function, 416
INQUIRE POLYMARKER FACILITIES
`pinq_marker_facs`—C function, 418
INQUIRE POLYMARKER REPRESENTATION
`pinq_marker_rep`—C function, 420
INQUIRE POLYMARKER REPRESENTATION PLUS
`pinq_marker_rep_plus`—C function, 422
INQUIRE POSTED STRUCTURES
`pinq_posted_structs`—C function, 424
INQUIRE PREDEFINED COLOUR MAPPING REPRESENTATION
`pinq_pred_colr_map_rep`—C function, 426
INQUIRE PREDEFINED COLOUR REPRESENTATION
`pinq_pred_colr_rep`—C function, 429
INQUIRE PREDEFINED DEPTH CUE REPRESENTATION
`pinq_pred_dcue_rep`—C function, 431
INQUIRE PREDEFINED EDGE REPRESENTATION
`pinq_pred_edge_rep`—C function, 433
INQUIRE PREDEFINED EDGE REPRESENTATION PLUS
`pinq_pred_edge_rep_plus`—C function, 435
INQUIRE PREDEFINED INTERIOR REPRESENTATION
`pinq_pred_int_rep`—C function, 437
INQUIRE PREDEFINED INTERIOR REPRESENTATION PLUS
`pinq_pred_int_rep_plus`—C function, 439
INQUIRE PREDEFINED LIGHT SOURCE REPRESENTATION
`pinq_pred_light_src_rep`—C function, 443
INQUIRE PREDEFINED PATTERN REPRESENTATION
`pinq_pred_pat_rep`—C function, 446
INQUIRE PREDEFINED PATTERN REPRESENTATION PLUS
`pinq_pred_pat_rep_plus`—C function, 448
INQUIRE PREDEFINED POLYLINE REPRESENTATION
`pinq_pred_line_rep`—C function, 452
INQUIRE PREDEFINED POLYLINE REPRESENTATION PLUS

pinq_pred_line_rep_plus—C function, 454
INQUIRE PREDEFINED POLYMARKER REPRESENTATION
pinq_pred_marker_rep—C function, 456
INQUIRE PREDEFINED POLYMARKER REPRESENTATION PLUS
pinq_pred_marker_rep_plus—C function, 458
INQUIRE PREDEFINED TEXT REPRESENTATION
pinq_pred_text_rep—C function, 460
INQUIRE PREDEFINED TEXT REPRESENTATION PLUS
pinq_pred_text_rep_plus—C function, 462
INQUIRE PREDEFINED VIEW REPRESENTATION, See *Workstation Transformation*
pinq_pred_view_rep—C function, 464
INQUIRE RENDERING COLOR MODEL FACILITIES, 466
INQUIRE RENDERING COLOUR MODEL FACILITIES
pinq_rendering_colr_model_facs—C function, 466
INQUIRE SET OF OPEN WORKSTATIONS
pinq_set_open_ws—C function, 468
INQUIRE SET OF WORKSTATIONS TO WHICH POSTED
pinq_wss_posted—C function, 470
INQUIRE STRING DEVICE STATE
pinq_string_st—C function, 472
INQUIRE STRING DEVICE STATE 3
pinq_string_st3—C function, 475
INQUIRE STROKE DEVICE STATE
pinq_stroke_st—C function, 478
INQUIRE STROKE DEVICE STATE 3
pinq_stroke_st3—C function, 481
INQUIRE STRUCTURE IDENTIFIERS
pinq_struct_ids—C function, 484
INQUIRE STRUCTURE STATE VALUE
pinq_struct_st—C function, 486
INQUIRE STRUCTURE STATUS
pinq_struct_status—C function, 487
INQUIRE SYSTEM STATE VALUE
pinq_sys_st—C function, 488
INQUIRE TEXT EXTENT
pinq_text_extent—C function, 489
INQUIRE TEXT FACILITIES
pinq_text_facs—C function, 492
INQUIRE TEXT REPRESENTATION
pinq_text_rep—C function, 494
INQUIRE TEXT REPRESENTATION PLUS
pinq_text_rep_plus—C function, 496
INQUIRE VALUATOR DEVICE STATE
pinq_val_st—C function, 498
INQUIRE VALUATOR DEVICE STATE 3
pinq_val_st3—C function, 501
INQUIRE VIEW FACILITIES
pinq_view_facs—C function, 504
INQUIRE VIEW REPRESENTATION
pinq_view_rep—C function, 505
INQUIRE WORKSTATION CATEGORY
pinq_ws_cat—C function, 507
INQUIRE WORKSTATION CLASSIFICATION
pinq_ws_class—C function, 508
INQUIRE WORKSTATION CONNECTION AND TYPE
pinq_ws_conn_type—C function, 509

INQUIRE WORKSTATION STATE TABLE LENGTHS
`pinq_ws_st_table`—C function, 511
INQUIRE WORKSTATION STATE VALUE
`pinq_ws_st`—C function, 515
INQUIRE WORKSTATION TRANSFORMATION
`pinq_ws_tran`—C function, 516
INQUIRE WORKSTATION TRANSFORMATION 3
`pinq_ws_tran3`—C function, 518
Inquiry functions
INQUIRE COLOUR MAPPING FACILITIES, 191
INQUIRE COLOUR MAPPING REPRESENTATION, 195
INQUIRE CURVE AND SURFACE FACILITIES, 233
INQUIRE DEPTH CUE FACILITIES, 272
INQUIRE DEPTH CUE REPRESENTATION, 273
INQUIRE DIRECT COLOUR MODEL FACILITIES, 275
INQUIRE EDGE REPRESENTATION PLUS, 292
INQUIRE INTERIOR FACILITIES PLUS, 338
INQUIRE INTERIOR REPRESENTATION PLUS, 343
INQUIRE LIGHT SOURCE FACILITIES, 349
INQUIRE LIGHT SOURCE REPRESENTATION, 351
INQUIRE LIST OF COLOUR MAPPING INDICES, 361
INQUIRE LIST OF DEPTH CUE INDICES, 363
INQUIRE LIST OF LIGHT SOURCE INDICES, 368
INQUIRE PATTERN REPRESENTATION PLUS, 400
INQUIRE POLYLINE FACILITIES PLUS, 412
INQUIRE POLYLINE REPRESENTATION PLUS, 416
INQUIRE POLYMARKER REPRESENTATION PLUS, 422
INQUIRE PREDEFINED COLOUR MAPPING REPRESENTATION, 426
INQUIRE PREDEFINED DEPTH CUE REPRESENTATION, 431
INQUIRE PREDEFINED EDGE REPRESENTATION PLUS, 435
INQUIRE PREDEFINED INTERIOR REPRESENTATION PLUS, 439
INQUIRE PREDEFINED LIGHT SOURCE REPRESENTATION, 443
INQUIRE PREDEFINED PATTERN REPRESENTATION PLUS, 448
INQUIRE PREDEFINED POLYLINE REPRESENTATION PLUS, 454
INQUIRE PREDEFINED POLYMARKER REPRESENTATION PLUS, 458
INQUIRE PREDEFINED TEXT REPRESENTATION PLUS, 462
INQUIRE TEXT REPRESENTATION PLUS, 496
INQUIRE WORKSTATION STATE TABLE PLUS LENGTHS, 513
Insert Mode
SET EDIT MODE, 671
Introduction
INTRO_PHIGS, 1
Introduction to the PEX-SI, 1
Invisibility
ADD NAMES TO SET, 6
INQUIRE INVISIBILITY FILTER, 347
REMOVE NAMES FROM SET, 563
SET INVISIBILITY FILTER, 708

L

LABEL, See Editing
`plabel`—C function, 520
Lighting
INQUIRE LIGHT SOURCE FACILITIES, 349
INQUIRE LIGHT SOURCE REPRESENTATION, 351
INQUIRE LIST OF LIGHT SOURCE INDICES, 368
SET LIGHT SOURCE REPRESENTATION, 710

SET LIGHT SOURCE STATE, 713
Line Attributes
SET CURVE APPROXIMATION CRITERIA, 645
SET LINETYPE, 715
SET LINEWIDTH SCALE FACTOR, 716
SET POLYLINE COLOUR, 753
SET POLYLINE COLOUR INDEX, 755
SET POLYLINE INDEX, 757
Line Primitives
NON-UNIFORM B-SPLINE CURVE, 522
POLYLINE, 543
POLYLINE 3, 545
POLYLINE SET 3 WITH DATA, 547
Locator Input Devices
GET LOCATOR, 115
GET LOCATOR 3, 117
INITIALIZE LOCATOR, 141
INITIALIZE LOCATOR 3, 144
INQUIRE DEFAULT LOCATOR DEVICE DATA, 244
INQUIRE DEFAULT LOCATOR DEVICE DATA 3, 247
INQUIRE LOCATOR DEVICE STATE, 380
INQUIRE LOCATOR DEVICE STATE 3, 383
REQUEST LOCATOR, 567
REQUEST LOCATOR 3, 569
SAMPLE LOCATOR, 599
SAMPLE LOCATOR 3, 601
SET LOCATOR MODE, 721

M

Marker Attributes
SET MARKER SIZE SCALE FACTOR, 723
SET MARKER TYPE, 724
SET POLYMARKER COLOUR, 765
SET POLYMARKER COLOUR INDEX, 767
SET POLYMARKER INDEX, 768
Marker Primitives
POLYMARKER, 550
POLYMARKER 3, 552
Mesh
QUADRILATERAL MESH 3 WITH DATA, 556
MESSAGE
`pmessage`—C function, 521
Metafiles
OPEN WORKSTATION, 537
Modelling and Transformation Attributes
RESTORE MODELLING CLIPPING VOLUME, 581
SET GLOBAL TRANSFORMATION, 679
SET GLOBAL TRANSFORMATION 3, 681
SET LOCAL TRANSFORMATION, 717
SET LOCAL TRANSFORMATION 3, 719
SET MODELLING CLIPPING INDICATOR, 726
SET MODELLING CLIPPING VOLUME, 727
SET MODELLING CLIPPING VOLUME 3, 729
SET VIEW INDEX, 801
Modelling Clipping
INQUIRE MODELLING CLIPPING FACILITIES, 386
RESTORE MODELLING CLIPPING VOLUME, 581

SET MODELLING CLIPPING INDICATOR, 726
SET MODELLING CLIPPING VOLUME, 727
SET MODELLING CLIPPING VOLUME 3, 729
Modifications
SET DISPLAY UPDATE STATE, 652

N

Namesets
ADD NAMES TO SET, 6
INCREMENTAL SPATIAL SEARCH, 127
INCREMENTAL SPATIAL SEARCH 3, 130
REMOVE NAMES FROM SET, 563
SET HIGHLIGHTING FILTER, 683
SET INVISIBILITY FILTER, 708
SET PICK FILTER, 748
NON-UNIFORM B-SPLINE CURVE
`pnuni_bsp_curv`—C function, 522
NON-UNIFORM B-SPLINE SURFACE
`pnuni_bsp_surf`—C function, 525
Nonstandard Functions
WORKSTATION TYPE CREATE, 831
WORKSTATION TYPE DESTROY, 833
WORKSTATION TYPE GET, 834
WORKSTATION TYPE SET, 835
Normals
COMPUTE FILL AREA SET GEOMETRIC NORMAL, 47
NURB functions
NON-UNIFORM B-SPLINE CURVE, 522
NON-UNIFORM B-SPLINE SURFACE, 525

O

OFFSET ELEMENT POINTER
`poffset_elem_ptr`—C function, 530
OPEN ARCHIVE FILE
`popen_ar_file`—C function, 531
OPEN PHIGS
`popen_phigs`—C function, 533
OPEN STRUCTURE
`popen_struct`—C function, 535
OPEN WORKSTATION
`popen_ws`—C function, 537
OPEN XPHIGS
`popen_xphigs`—C function, 540
Operating States
EMERGENCY CLOSE PHIGS, 67
INQUIRE ARCHIVE STATE VALUE, 182
INQUIRE OPEN STRUCTURE, 392
INQUIRE STRUCTURE STATE VALUE, 486
INQUIRE SYSTEM STATE VALUE, 488
INQUIRE WORKSTATION STATE VALUE, 515

P

`padd_names_set`—C function, 6
`panno_text_rel`—C function, 8
`panno_text_rel3`—C function, 10
`pappl_data`—C function, 12
`par_all_structs`—C function, 13

par_struct_nets—C function, 14
par_structs—C function, 16
Pattern Fill
    INQUIRE LIST OF PATTERN INDICES, 370
    INQUIRE PATTERN FACILITIES, 397
    INQUIRE PATTERN REPRESENTATION, 398
    INQUIRE PATTERN REPRESENTATION PLUS, 400
    INQUIRE PREDEFINED PATTERN REPRESENTATION, 446
    INQUIRE PREDEFINED PATTERN REPRESENTATION PLUS, 448
    SET PATTERN REFERENCE POINT, 739
    SET PATTERN REFERENCE POINT AND VECTORS, 740
    SET PATTERN REPRESENTATION, 742
    SET PATTERN REPRESENTATION PLUS, 744
    SET PATTERN SIZE, 747
Patterned Lines
    SET EDGETYPE, 667
    SET LINETYPE, 715
pawait_event—C function, 18
pbuild_tran_matrix—C function, 20
pbuild_tran_matrix3—C function, 22
pcell_array—C function, 24
pcell_array3—C function, 26
pcell_array3_plus—C function, 28
pchange_struct_id—C function, 31
pchange_struct_id_refs—C function, 33
pchange_struct_refs—C function, 35
pclose_ar_file—C function, 37
pclose_phigs—C function, 38
pclose_struct—C function, 39
pclose_ws—C function, 40
pcomp_fill_area_set_gnorm—C function, 47
pcompose_matrix—C function, 41
pcompose_matrix3—C function, 42
pcompose_tran_matrix—C function, 43
pcompose_tran_matrix3—C function, 45
pcopy_all_elems_struct—C function, 50
pcreate_store—C function, 51
pdel_all_structs—C function, 52
pdel_all_structs_ar—C function, 53
pdel_elem—C function, 54
pdel_elem_range—C function, 55
pdel_elems_labels—C function, 56
pdel_store—C function, 57
pdel_struct—C function, 58
pdel_struct_net—C function, 59
pdel_struct_nets_ar—C function, 61
pdel_structs_ar—C function, 62
pelem_search—C function, 63
pemergency_close_phigs—C function, 67
pempty_struct—C function, 68
perr_hand—C function, 69
perr_log—C function, 70
pescape — C function, 71
pescape—C function, 71
peval_view_map_matrix—C function, 83

peval_view_map_matrix3—C function, 85
peval_view_ori_matrix—C function, 88
peval_view_ori_matrix3—C function, 90
pexec_struct—C function, 92
PFCN_KEY C Macros
    INITIALIZE CHOICE, 133
    INITIALIZE CHOICE 3, 137
pfill_area—C function, 94
pfill_area_set—C function, 98
pfill_area_set3—C function, 100
pfill_area3—C function, 96
pflush_events—C function, 107
pgdp—C function, 108
pgdp3—C function, 110
pget_choice—C function, 113
pget_loc—C function, 115
pget_loc3—C function, 117
pget_pick—C function, 119
pget_string—C function, 121
pget_stroke—C function, 122
pget_stroke3—C function, 124
pget_val—C function, 126
pgse—C function, 112
PHIGS DESCRIPTION TABLE, 842
PHIGS Extension Functions
    COMPUTE FILL AREA SET GEOMETRIC NORMAL, 47
    FILL AREA SET 3 WITH DATA, 102
    INQUIRE COLOUR MAPPING FACILITIES, 191
    INQUIRE COLOUR MAPPING REPRESENTATION, 195
    INQUIRE CURVE AND SURFACE FACILITIES, 233
    INQUIRE DEPTH CUE FACILITIES, 272
    INQUIRE DEPTH CUE REPRESENTATION, 273
    INQUIRE DIRECT COLOUR MODEL FACILITIES, 275
    INQUIRE EDGE REPRESENTATION PLUS, 292
    INQUIRE INTERIOR FACILITIES PLUS, 338
    INQUIRE INTERIOR REPRESENTATION PLUS, 343
    INQUIRE LIGHT SOURCE FACILITIES, 349
    INQUIRE LIGHT SOURCE REPRESENTATION, 351
    INQUIRE LIST OF COLOUR MAPPING INDICES, 361
    INQUIRE LIST OF DEPTH CUE INDICES, 363
    INQUIRE LIST OF LIGHT SOURCE INDICES, 368
    INQUIRE PATTERN REPRESENTATION PLUS, 400
    INQUIRE POLYLINE FACILITIES PLUS, 412
    INQUIRE POLYLINE REPRESENTATION PLUS, 416
    INQUIRE POLYMARKER REPRESENTATION PLUS, 422
    INQUIRE PREDEFINED COLOUR MAPPING REPRESENTATION, 426
    INQUIRE PREDEFINED DEPTH CUE REPRESENTATION, 431
    INQUIRE PREDEFINED EDGE REPRESENTATION PLUS, 435
    INQUIRE PREDEFINED INTERIOR REPRESENTATION PLUS, 439
    INQUIRE PREDEFINED LIGHT SOURCE REPRESENTATION, 443
    INQUIRE PREDEFINED PATTERN REPRESENTATION PLUS, 448
    INQUIRE PREDEFINED POLYLINE REPRESENTATION PLUS, 454
    INQUIRE PREDEFINED POLYMARKER REPRESENTATION PLUS, 458
    INQUIRE PREDEFINED TEXT REPRESENTATION PLUS, 462
    INQUIRE TEXT REPRESENTATION PLUS, 496
    INQUIRE WORKSTATION STATE TABLE PLUS LENGTHS, 513

NON-UNIFORM B-SPLINE CURVE, 522
NON-UNIFORM B-SPLINE SURFACE, 525
POLYLINE SET 3 WITH DATA, 547
QUADRILATERAL MESH 3 WITH DATA, 556
SET BACK INTERIOR COLOUR, 619
SET BACK INTERIOR SHADING METHOD, 623
SET BACK INTERIOR STYLE, 625
SET BACK INTERIOR STYLE INDEX, 627
SET BACK REFLECTANCE PROPERTIES, 629
SET COLOUR MAPPING INDEX, 637
SET COLOUR MAPPING REPRESENTATION, 638
SET DEPTH CUE INDEX, 647
SET DEPTH CUE REPRESENTATION, 649
SET EDGE COLOUR, 655
SET EDGE REPRESENTATION PLUS, 665
SET FACE CULLING MODE, 676
SET FACE DISTINGUISHING MODE, 677
SET INTERIOR COLOUR, 691
SET INTERIOR REPRESENTATION PLUS, 699
SET INTERIOR SHADING METHOD, 702
SET LIGHT SOURCE REPRESENTATION, 710
SET OF FILL AREA SET 3 WITH DATA, 731
SET PATTERN REPRESENTATION PLUS, 744
SET POLYLINE COLOUR, 753
SET POLYLINE REPRESENTATION PLUS, 761
SET POLYLINE SHADING METHOD, 764
SET POLYMARKER COLOUR, 765
SET POLYMARKER REPRESENTATION PLUS, 771
SET REFLECTANCE EQUATION, 621, 773
SET REFLECTANCE PROPERTIES, 775
SET SURFACE APPROXIMATION CRITERIA, 782
SET TEXT COLOUR, 786
SET TEXT REPRESENTATION PLUS, 796
PHIGS Monitor (PM)
description, 5
PHIGS TRAVERSAL STATE LIST, 843
PHIGS WORKSTATION DESCRIPTION TABLE, **847**
`phigs_ws_type_create`—C function, 831
`phigs_ws_type_destroy`—C function, 833
`phigs_ws_type_get`—C function, 834
`phigs_ws_type_set`—C function, 835
Pick Input Devices
GET PICK, 119
INITIALIZE PICK, 147
INITIALIZE PICK 3, 151
INQUIRE DEFAULT PICK DEVICE DATA, 250
INQUIRE DEFAULT PICK DEVICE DATA 3, 252
INQUIRE PICK DEVICE STATE, 404
INQUIRE PICK DEVICE STATE 3, 407
REQUEST PICK, 571
SAMPLE PICK, 603
SET PICK FILTER, 748
SET PICK IDENTIFIER, 750
SET PICK MODE, 751
`pincr_spa_search`—C function, 127
`pincr_spa_search3`—C function, 130
`pinit_choice`—C function, 133

pinit_choice3—C function, 137
pinit_loc—C function, 141
pinit_loc3—C function, 144
pinit_pick—C function, 147
pinit_pick3—C function, 151
pinit_string—C function, 155
pinit_string3—C function, 158
pinit_stroke—C function, 161
pinit_stroke3—C function, 165
pinit_val—C function, 169
pinit_val3—C function, 173
pinq_all_conf_structs—C function, 177
pinq_anno_facs—C function, 179
pinq_ar_files—C function, 181
pinq_ar_st—C function, 182
pinq_choice_st—C function, 183
pinq_choice_st3—C function, 186
pinq_colr_facs—C function, 189
pinq_colr_map_facs—C function, 191
pinq_colr_map_method_facs—C function, 193
pinq_colr_map_method_st—C function, 199
pinq_colr_map_rep—C function, 195
pinq_colr_model—C function, 201
pinq_colr_model_facs—C function, 202
pinq_colr_rep—C function, 204
pinq_conf_res—C function, 206
pinq_conf_structs_net—C function, 207
pinq_cur_elem_content—C function, 209
pinq_cur_elem_type_size—C function, 230
pinq_curv_surf_facs—C function, 233
pinq_dcue_facs—C function, 272
pinq_dcue_rep—C function, 273
pinq_def_choice_data—C function, 236
pinq_def_choice_data3—C function, 239
pinq_def_disp_upd_st—C function, 242
pinq_def_loc_data—C function, 244
pinq_def_loc_data3—C function, 247
pinq_def_pick_data—C function, 250
pinq_def_pick_data3—C function, 252
pinq_def_string_data—C function, 254
pinq_def_string_data3—C function, 257
pinq_def_stroke_data—C function, 260
pinq_def_stroke_data3—C function, 263
pinq_def_val_data—C function, 266
pinq_def_val_data3—C function, 269
pinq_direct_colr_model_facs—C function, 275
pinq_disp_space_size—C function, 277
pinq_disp_space_size3—C function, 279
pinq_disp_upd_st—C function, 281
pinq_dyns_structs—C function, 283
pinq_dyns_ws_attrs—C function, 284
pinq_dyns_ws_attrs_plus—C function, 286
pinq_edge_facs—C function, 288

pinq_edge_rep—C function, 290, 292
pinq_edit_mode—C function, 294
pinq_elem_content—C function, 295
pinq_elem_ptr—C function, 316
pinq_elem_type_size—C function, 317
pinq_err_hand_mode—C function, 320
pinq_gdp—C function, 321
pinq_gdp3—C function, 323
pinq_gse_facs—C function, 325
pinq_highl_filter—C function, 327
pinq_hlhsr_id_facs—C function, 329
pinq_hlhsr_mode—C function, 331
pinq_hlhsr_mode_facs—C function, 332
pinq_in_overf—C function, 334
pinq_int_facs—C function, 336
pinq_int_facs_plus—C function, 338
pinq_int_rep—C function, 341
pinq_int_rep_plus—C function, 343
pinq_invis_filter—C function, 347
pinq_light_src_facs—C function, 349
pinq_light_src_rep—C function, 351
pinq_line_facs—C function, 410
pinq_line_facs_plus—C function, 412
pinq_line_rep—C function, 414
pinq_line_rep_plus—C function, 416
pinq_list_avail_gdp—C function, 354
pinq_list_avail_gdp3—C function, 356
pinq_list_avail_ws_types—C function, 358
pinq_list_colr_inds—C function, 360
pinq_list_colr_map_inds—C function, 361
pinq_list_dcue_inds—C function, 363
pinq_list_edge_inds—C function, 365
pinq_list_int_inds—C function, 366
pinq_list_light_src_inds—C function, 368
pinq_list_line_inds—C function, 372
pinq_list_marker_inds—C function, 374
pinq_list_pat_inds—C function, 370
pinq_list_text_inds—C function, 376
pinq_list_view_inds—C function, 378
pinq_loc_st—C function, 380
pinq_loc_st3—C function, 383
pinq_marker_facs—C function, 418
pinq_marker_rep—C function, 420
pinq_marker_rep_plus—C function, 422
pinq_model_clip_facs—C function, 386
pinq_more_simult_events—C function, 387
pinq_num_avail_in—C function, 389
pinq_num_disp_pris—C function, 391
pinq_open_struct—C function, 392
pinq_pat_facs—C function, 397
pinq_pat_rep—C function, 398
pinq_pat_rep_plus—C function, 400
pinq_paths_ances—C function, 393

pinq_paths_descs—C function, 395
pinq_phigs_facs—C function, 402
pinq_pick_st—C function, 404
pinq_pick_st3—C function, 407
pinq_posted_structs—C function, 424
pinq_pred_colr_map_rep—C function, 426
pinq_pred_colr_rep—C function, 429
pinq_pred_dcue_rep—C function, 431
pinq_pred_edge_rep—C function, 433
pinq_pred_edge_rep_plus—C function, 435
pinq_pred_int_rep—C function, 437
pinq_pred_int_rep_plus—C function, 439
pinq_pred_light_src_rep—C function, 443
pinq_pred_line_rep—C function, 452
pinq_pred_line_rep_plus—C function, 454
pinq_pred_marker_rep—C function, 456
pinq_pred_marker_rep_plus—C function, 458
pinq_pred_pat_rep—C function, 446
pinq_pred_pat_rep_plus—C function, 448
pinq_pred_text_rep—C function, 460
pinq_pred_text_rep_plus—C function, 462
pinq_pred_view_rep—C function, 464
pinq_rendering_colr_model_facs—C function, 466
pinq_set_open_ws—C function, 468
pinq_string_st—C function, 472
pinq_string_st3—C function, 475
pinq_stroke_st—C function, 478
pinq_stroke_st3—C function, 481
pinq_struct_ids—C function, 484
pinq_struct_st—C function, 486
pinq_struct_status—C function, 487
pinq_sys_st—C function, 488
pinq_text_extent—C function, 489
pinq_text_facs—C function, 492
pinq_text_rep—C function, 494
pinq_text_rep_plus—C function, 496
pinq_val_st—C function, 498
pinq_val_st3—C function, 501
pinq_view_facs—C function, 504
pinq_view_rep—C function, 505
pinq_ws_cat—C function, 507
pinq_ws_class—C function, 508
pinq_ws_conn_type—C function, 509
pinq_ws_st—C function, 515
pinq_ws_st_table—C function, 511
pinq_ws_tran—C function, 516
pinq_ws_tran3—C function, 518
pinq_wss_posted—C function, 470
plabel—C function, 520
pmessage—C function, 521
pnuni_bsp_curv—C function, 522
pnuni_bsp_surf—C function, 525
poffset_elem_ptr—C function, 530

Polygons, Filled Area Primitives
FILL AREA, 94
FILL AREA 3, 96
FILL AREA SET, 98
FILL AREA SET 3, 100
POLYLINE
ppolyline—C function, 543
POLYLINE 3
ppolyline3—C function, 545
POLYLINE SET 3 WITH DATA
ppolyline_set3_data—C function, 547
POLYMARKER
ppolymarker—C function, 550
POLYMARKER 3
ppolymarker3—C function, 552
popen_ar_file—C function, 531
popen_phigs—C function, 533
popen_struct—C function, 535
popen_ws—C function, 537
popen_xphigs—C function, 540
POST STRUCTURE
ppost_struct—C function, 554
ppolyline—C function, 543
ppolyline_set3_data—C function, 547
ppolyline3—C function, 545
ppolymarker—C function, 550
ppolymarker3—C function, 552
ppost_struct—C function, 554
pquad_mesh3_data—C function, 556
predraw_all_structs—C function, 561
premove_names_set—C function, 563
preq_choice—C function, 565
preq_loc—C function, 567
preq_loc3—C function, 569
preq_pick—C function, 571
preq_string—C function, 573
preq_stroke—C function, 575
preq_stroke3—C function, 577
preq_val—C function, 579
prestore_model_clip_vol—C function, 581
pret_all_structs—C function, 582
pret_paths_ances—C function, 583
pret_paths_descs—C function, 585
pret_struct_ids—C function, 587
pret_struct_nets—C function, 589
pret_structs—C function, 591
Primitives, Filled Area Primitives
FILL AREA, 94
FILL AREA 3, 96
FILL AREA SET, 98
FILL AREA SET 3, 100
FILL AREA SET 3 WITH DATA, 102
NON-UNIFORM B-SPLINE SURFACE, 525
QUADRILATERAL MESH 3 WITH DATA, 556
SET OF FILL AREA SET 3 WITH DATA, 731

Primitives, Line Primitives
NON-UNIFORM B-SPLINE CURVE, 522
POLYLINE, 543
POLYLINE 3, 545
POLYLINE SET 3 WITH DATA, 547
Primitives, Marker Primitives
POLYMARKER, 550
POLYMARKER 3, 552
Primitives, Special Primitives
CELL ARRAY, 24
CELL ARRAY 3, 26
GENERALIZED DRAWING PRIMITIVE, 108
Primitives, Text Primitives
ANNOTATION TEXT RELATIVE, 8
ANNOTATION TEXT RELATIVE 3, 10
TEXT, 818
TEXT 3, 820
Priority, Display Priority
INQUIRE NUMBER OF DISPLAY PRIORITIES SUPPORTED, 391
INQUIRE POSTED STRUCTURES, 424
POST STRUCTURE, 554
protate—C function, 593
protate_x—C function, 594
protate_y—C function, 595
protate_z—C function, 596
psample_choice—C function, 597
psample_loc—C function, 599
psample_loc3—C function, 601
psample_pick—C function, 603
psample_string—C function, 605
psample_stroke—C function, 606
psample_stroke3—C function, 608
psample_val—C function, 610
pscale—C function, 611
pscale3—C function, 612
pset_anno_align—C function, 614
pset_anno_char_ht—C function, 616
pset_anno_char_up_vec—C function, 617
pset_anno_path—C function, 618
pset_anno_style—C function, 613
pset_back_int_colr—C function, 619
pset_back_int_refl_eqn—C function, 621
pset_back_int_shad_meth—C function, 623
pset_back_int_style—C function, 625
pset_back_int_style_ind—C function, 627
pset_back_refl_props—C function, 629
pset_char_expan—C function, 631
pset_char_ht—C function, 632
pset_char_space—C function, 633
pset_char_up_vec—C function, 634
pset_choice_mode—C function, 635
pset_colr_map_rep—C function, 638
pset_colr_model—C function, 641
pset_colr_rep—C function, 642
pset_conf_res—C function, 644

pset_curv_approx—C function, 645
pset_dcue_ind—C function, 647
pset_dcue_rep—C function, 649
pset_disp_upd_st—C function, 652
pset_edge_colr—C function, 655
pset_edge_colr_ind—C function, 657
pset_edge_flag—C function, 659
pset_edge_ind—C function, 661
pset_edge_rep—C function, 663
pset_edge_rep_plus—C function, 665
pset_edgetype—C function, 667
pset_edgewidth—C function, 669
pset_edit_mode—C function, 671
pset_elem_ptr—C function, 672
pset_elem_ptr_label—C function, 673
pset_err_hand_mode—C function, 675
pset_face_cull_mode—C function, 676
pset_face_disting_mode—C function, 677
pset_global_tran—C function, 679
pset_global_tran3—C function, 681
pset_highl_filter—C function, 683
pset_hlhsr_id—C function, 685
pset_hlhsr_mode—C function, 687
pset_indiv_asf—C function, 689
pset_int_colr—C function, 691
pset_int_colr_ind—C function, 693
pset_int_ind—C function, 695
pset_int_rep—C function, 697
pset_int_rep_plus—C function, 699
pset_int_shad_meth—C function, 702
pset_int_style—C function, 704
pset_int_style_ind—C function, 706
pset_invis_filter—C function, 708
pset_light_src_rep—C function, 710
pset_light_src_state—C function, 713
pset_line_colr—C function, 753
pset_line_colr_ind—C function, 755
pset_line_ind—C function, 757
pset_line_rep—C function, 759
pset_line_rep_plus—C function, 761
pset_line_shad_meth—C function, 764
pset_linetype—C function, 715
pset_linewidth—C function, 716
pset_loc_mode—C function, 721
pset_local_tran—C function, 717
pset_local_tran3—C function, 719
pset_marker_colr—C function, 765
pset_marker_colr_ind—C function, 767
pset_marker_ind—C function, 768
pset_marker_rep—C function, 769
pset_marker_rep_plus—C function, 771
pset_marker_size—C function, 723
pset_marker_type—C function, 724

pset_model_clip_ind—C function, 726
pset_model_clip_vol—C function, 727
pset_model_clip_vol3—C function, 729
pset_of_fill_area_set3_data—C function, 731
pset_para_surf_characs—C function, 737
pset_pat_ref_point—C function, 739
pset_pat_ref_point_vecs—C function, 740
pset_pat_rep—C function, 742
pset_pat_rep_plus—C function, 744
pset_pat_size—C function, 747
pset_pick_filter—C function, 748
pset_pick_id—C function, 750
pset_pick_mode—C function, 751
pset_refl_eqn—C function, 773
pset_refl_props—C function, 775
pset_rendering_colr_model—C function, 777
pset_string_mode—C function, 778
pset_stroke_mode—C function, 780
pset_surf_approx—C function, 782
pset_text_align—C function, 784
pset_text_colr—C function, 786
pset_text_colr_ind—C function, 788
pset_text_font—C function, 789
pset_text_ind—C function, 790
pset_text_path—C function, 791
pset_text_prec—C function, 792
pset_text_rep—C function, 794
pset_text_rep_plus—C function, 796
pset_val_mode—C function, 799
pset_view_ind—C function, 801
pset_view_rep—C function, 802
pset_view_rep3—C function, 805
pset_view_tran_in_pri—C function, 808
pset_ws_vp—C function, 810
pset_ws_vp3—C function, 812
pset_ws_win—C function, 814
pset_ws_win3—C function, 816
ptext—C function, 818
ptext3—C function, 820
ptran_point—C function, 822
ptran_point3—C function, 823
ptranslate—C function, 825
ptranslate3—C function, 826
punpost_all_structs—C function, 827
punpost_struct—C function, 828
pupd_ws—C function, 829

Q

QUADRILATERAL MESH 3 WITH DATA
    pquad_mesh3_data—C function, 556
Quick Update Methods
    INQUIRE DEFAULT DISPLAY UPDATE STATE, 242
    INQUIRE DISPLAY UPDATE STATE, 281
    SET DISPLAY UPDATE STATE, 652

R

REDRAW ALL STRUCTURES
predraw_all_structs—C function, 561
Regeneration
SET DISPLAY UPDATE STATE, 652
UPDATE WORKSTATION, 829
REMOVE NAMES FROM SET
premove_names_set—C function, 563
Replace Mode
SET EDIT MODE, 671
REQUEST CHOICE
preq_choice—C function, 565
Request Input Mode
REQUEST CHOICE, 565
REQUEST LOCATOR 3, 569
REQUEST PICK, 571
REQUEST STRING, 573
REQUEST STROKE 3, 577
REQUEST VALUATOR, 579
REQUEST LOCATOR
preq_loc—C function, 567
REQUEST LOCATOR 3
preq_loc3—C function, 569
REQUEST PICK
preq_pick—C function, 571
REQUEST STRING
preq_string—C function, 573
REQUEST STROKE
preq_stroke—C function, 575
REQUEST STROKE 3
preq_stroke3—C function, 577
REQUEST VALUATOR
preq_val—C function, 579
Reserved Names
description, 1
RESTORE MODELLING CLIPPING VOLUME
prestore_model_clip_vol—C function, 581
RETRIEVE ALL STRUCTURES
pret_all_structs—C function, 582
RETRIEVE PATHS TO ANCESTORS
pret_paths_ances—C function, 583
RETRIEVE PATHS TO DESCENDANTS
pret_paths_descs—C function, 585
RETRIEVE STRUCTURE IDENTIFIERS
pret_struct_ids—C function, 587
RETRIEVE STRUCTURE NETWORKS
pret_struct_nets—C function, 589
RETRIEVE STRUCTURES
pret_structs—C function, 591
ROTATE
protate—C function, 593
ROTATE X
protate_x—C function, 594
ROTATE Y
protate_y—C function, 595
ROTATE Z

protate_z—C function, 596

S

SAMPLE CHOICE
psample_choice—C function, 597
Sample Input Mode
SAMPLE CHOICE, 597
SAMPLE LOCATOR 3, 601
SAMPLE PICK, 603
SAMPLE STRING, 605
SAMPLE STROKE 3, 608
SAMPLE VALUATOR, 610
SAMPLE LOCATOR
psample_loc—C function, 599
SAMPLE LOCATOR 3
psample_loc3—C function, 601
SAMPLE PICK
psample_pick—C function, 603
SAMPLE STRING
psample_string—C function, 605
SAMPLE STROKE
psample_stroke—C function, 606
SAMPLE STROKE 3
psample_stroke3—C function, 608
SAMPLE VALUATOR
psample_val—C function, 610
SCALE
pscale—C function, 611
SCALE 3
pscale3—C function, 612
Searching
ELEMENT SEARCH, 63
INCREMENTAL SPATIAL SEARCH, 127
INCREMENTAL SPATIAL SEARCH 3, 130
SET ANNOTATION STYLE
pset_anno_style—C function, 613
SET ANNOTATION TEXT ALIGNMENT
pset_anno_align—C function, 614
SET ANNOTATION TEXT CHARACTER HEIGHT
pset_anno_char_ht—C function, 616
SET ANNOTATION TEXT CHARACTER UP VECTOR
pset_anno_char_up_vec—C function, 617
SET ANNOTATION TEXT PATH
pset_anno_path—C function, 618
Set Annotation Text Slant Angle
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
SET BACK INTERIOR COLOUR
pset_back_int_colr—C function, 619
SET BACK INTERIOR REFLECTANCE EQUATION
pset_back_int_refl_eqn—C function, 621
SET BACK INTERIOR SHADING METHOD
pset_back_int_shad_meth—C function, 623
SET BACK INTERIOR STYLE
pset_back_int_style—C function, 625
SET BACK INTERIOR STYLE INDEX

pset_back_int_style_ind—C function, 627
SET BACK REFLECTANCE PROPERTIES
pset_back_refl_props—C function, 629
SET CHARACTER EXPANSION FACTOR
pset_char_expan—C function, 631
SET CHARACTER HEIGHT
pset_char_ht—C function, 632
Set Character Set for Codeset
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
SET CHARACTER SPACING
pset_char_space—C function, 633
SET CHARACTER UP VECTOR
pset_char_up_vec—C function, 634
SET CHOICE MODE
pset_choice_mode—C function, 635
SET COLOUR MAPPING REPRESENTATION
pset_colr_map_rep—C function, 638
SET COLOUR MODEL
pset_colr_model—C function, 641
SET COLOUR REPRESENTATION
pset_colr_rep—C function, 642
SET CONFLICT RESOLUTION
pset_conf_res—C function, 644
SET CURVE APPROXIMATION CRITERIA
pset_curv_approx—C function, 645
SET DEPTH CUE INDEX
pset_dcue_ind—C function, 647
SET DEPTH CUE REPRESENTATION
pset_dcue_rep—C function, 649
SET DISPLAY UPDATE STATE
pset_disp_upd_st—C function, 652
SET EDGE COLOUR
pset_edge_colr—C function, 655
SET EDGE COLOUR INDEX
pset_edge_colr_ind—C function, 657
SET EDGE FLAG
pset_edge_flag—C function, 659
SET EDGE INDEX
pset_edge_ind—C function, 661
SET EDGE REPRESENTATION
pset_edge_rep—C function, 663
SET EDGE REPRESENTATION PLUS
pset_edge_rep_plus—C function, 665
SET EDGETYPE
pset_edgetype—C function, 667
SET EDGEWIDTH SCALE FACTOR
pset_edgewidth—C function, 669
SET EDIT MODE
pset_edit_mode—C function, 671
SET ELEMENT POINTER
pset_elem_ptr—C function, 672
SET ELEMENT POINTER AT LABEL
pset_elem_ptr_label—C function, 673
SET ERROR HANDLING MODE
pset_err_hand_mode—C function, 675

SET FACE CULLING MODE
pset_face_cull_mode—C function, 676
SET FACE DISTINGUISHING MODE
pset_face_disting_mode—C function, 677
Set Font for Codeset
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
SET GLOBAL TRANSFORMATION
pset_global_tran—C function, 679
SET GLOBAL TRANSFORMATION 3
pset_global_tran3—C function, 681
Set Highlight Colour Index
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
SET HIGHLIGHTING FILTER
pset_highl_filter—C function, 683
SET HLHSR IDENTIFIER
pset_hlhsr_id—C function, 685
SET HLHSR MODE
pset_hlhsr_mode—C function, 687
SET INDIVIDUAL ASF
pset_indiv_asf—C function, 689
SET INTERIOR COLOUR
pset_int_colr—C function, 691
SET INTERIOR COLOUR INDEX
pset_int_colr_ind—C function, 693
SET INTERIOR INDEX
pset_int_ind—C function, 695
SET INTERIOR REPRESENTATION
pset_int_rep—C function, 697
SET INTERIOR REPRESENTATION PLUS
pset_int_rep_plus—C function, 699
SET INTERIOR SHADING METHOD
pset_int_shad_meth—C function, 702
SET INTERIOR STYLE
pset_int_style—C function, 704
SET INTERIOR STYLE INDEX
pset_int_style_ind—C function, 706
SET INVISIBILITY FILTER
pset_invis_filter—C function, 708
SET LIGHT SOURCE REPRESENTATION
pset_light_src_rep—C function, 710
SET LIGHT SOURCE STATE
pset_light_src_state—C function, 713
SET LINETYPE
pset_linetype—C function, 715
SET LINEWIDTH SCALE FACTOR
pset_linewidth—C function, 716
SET LOCAL TRANSFORMATION
pset_local_tran—C function, 717
SET LOCAL TRANSFORMATION 3
pset_local_tran3—C function, 719
SET LOCATOR MODE
pset_loc_mode—C function, 721
SET MARKER SIZE SCALE FACTOR
pset_marker_size—C function, 723

SET MARKER TYPE
    pset_marker_type—C function, 724
SET MODELLING CLIPPING INDICATOR
    pset_model_clip_ind—C function, 726
SET MODELLING CLIPPING VOLUME
    pset_model_clip_vol—C function, 727
SET MODELLING CLIPPING VOLUME 3
    pset_model_clip_vol3—C function, 729
SET OF FILL AREA SET 3 WITH DATA
    pset_of_fill_area_set3_data—C function, 731
SET PARAMETRIC SURFACE CHARACTERISTICS, 737
    pset_para_surf_characs—C function, 737
SET PATTERN REFERENCE POINT
    pset_pat_ref_point—C function, 739
SET PATTERN REFERENCE POINT AND VECTORS
    pset_pat_ref_point_vecs—C function, 740
SET PATTERN REPRESENTATION
    pset_pat_rep—C function, 742
SET PATTERN REPRESENTATION PLUS
    pset_pat_rep_plus—C function, 744
SET PATTERN SIZE
    pset_pat_size—C function, 747
SET PICK FILTER
    pset_pick_filter—C function, 748
SET PICK IDENTIFIER, See Generalized Structure Elements
    pset_pick_id—C function, 750
SET PICK MODE
    pset_pick_mode—C function, 751
SET POLYLINE COLOUR
    pset_line_colr—C function, 753
SET POLYLINE COLOUR INDEX
    pset_line_colr_ind—C function, 755
SET POLYLINE INDEX
    pset_line_ind—C function, 757
SET POLYLINE REPRESENTATION
    pset_line_rep—C function, 759
SET POLYLINE REPRESENTATION PLUS
    pset_line_rep_plus—C function, 761
SET POLYLINE SHADING METHOD
    pset_line_shad_meth—C function, 764
SET POLYMARKER COLOUR
    pset_marker_colr—C function, 765
SET POLYMARKER COLOUR INDEX
    pset_marker_colr_ind—C function, 767
SET POLYMARKER INDEX
    pset_marker_ind—C function, 768
SET POLYMARKER REPRESENTATION
    pset_marker_rep—C function, 769
SET POLYMARKER REPRESENTATION PLUS
    pset_marker_rep_plus—C function, 771
SET REFLECTANCE EQUATION
    pset_refl_eqn—C function, 773
SET REFLECTANCE PROPERTIES
    pset_refl_props—C function, 775
SET RENDERING COLOUR MODEL
    pset_rendering_colr_model—C function, 777

SET STRING MODE
pset_string_mode—C function, 778
SET STROKE MODE
pset_stroke_mode—C function, 780
SET SURFACE APPROXIMATION CRITERIA
pset_surf_approx—C function, 782
SET TEXT ALIGNMENT
pset_text_align—C function, 784
SET TEXT COLOUR
pset_text_colr—C function, 786
SET TEXT COLOUR INDEX
pset_text_colr_ind—C function, 788
SET TEXT FONT
pset_text_font—C function, 789
SET TEXT INDEX
pset_text_ind—C function, 790
SET TEXT PATH
pset_text_path—C function, 791
SET TEXT PRECISION
pset_text_prec—C function, 792
SET TEXT REPRESENTATION
pset_text_rep—C function, 794
SET TEXT REPRESENTATION PLUS
pset_text_rep_plus—C function, 796
Set Text Slant Angle
GENERALIZED DRAWING PRIMITIVE, 110
GENERALIZED STRUCTURE ELEMENT, 112
SET VALUATOR MODE
pset_val_mode—C function, 799
SET VIEW INDEX
pset_view_ind—C function, 801
SET VIEW REPRESENTATION
pset_view_rep—C function, 802
SET VIEW REPRESENTATION 3
pset_view_rep3—C function, 805
SET VIEW TRANSFORMATION INPUT PRIORITY
pset_view_tran_in_pri—C function, 808
SET WORKSTATION VIEWPORT
pset_ws_vp—C function, 810
SET WORKSTATION VIEWPORT 3
pset_ws_vp3—C function, 812
SET WORKSTATION WINDOW
pset_ws_win—C function, 814
SET WORKSTATION WINDOW 3
pset_ws_win3—C function, 816
Shading
SET INTERIOR SHADING METHOD, 702
Simulations
INQUIRE DEFAULT DISPLAY UPDATE STATE, 242
INQUIRE DISPLAY UPDATE STATE, 281
SET DISPLAY UPDATE STATE, 652
Special Attributes
ADD NAMES TO SET, 6
REMOVE NAMES FROM SET, 563
SET COLOUR MAPPING INDEX, 637
SET COLOUR MAPPING REPRESENTATION, 638

SET DEPTH CUE INDEX, 647
SET DEPTH CUE REPRESENTATION, 649
SET HLHSR IDENTIFIER, 685
SET PICK IDENTIFIER, 750
Special Primitives
CELL ARRAY, 24
CELL ARRAY 3, 26
GENERALIZED DRAWING PRIMITIVE, 108
Splines
NON-UNIFORM B-SPLINE CURVE, 522
NON-UNIFORM B-SPLINE SURFACE, 525
String Input Devices
GET STRING, 121
INITIALIZE STRING, 155
INITIALIZE STRING 3, 158
INQUIRE DEFAULT STRING DEVICE DATA, 254
INQUIRE DEFAULT STRING DEVICE DATA 3, 257
INQUIRE STRING DEVICE STATE, 472
INQUIRE STRING DEVICE STATE 3, 475
REQUEST STRING, 573
SAMPLE STRING, 605
SET STRING MODE, 778
Stroke Input Devices
GET STROKE, 122
GET STROKE 3, 124
INITIALIZE STROKE, 161
INITIALIZE STROKE 3, 165
INQUIRE DEFAULT STROKE DEVICE DATA, 260
INQUIRE DEFAULT STROKE DEVICE DATA 3, 263
INQUIRE STROKE DEVICE STATE, 478
INQUIRE STROKE DEVICE STATE 3, 481
REQUEST STROKE, 575
REQUEST STROKE 3, 577
SAMPLE STROKE, 606
SAMPLE STROKE 3, 608
SET STROKE MODE, 780
Structure Networks
ARCHIVE STRUCTURE NETWORKS, 14
CHANGE STRUCTURE IDENTIFIER AND REFERENCES, 33
CHANGE STRUCTURE REFERENCES, 35
DELETE STRUCTURE NETWORK, 59
EXECUTE STRUCTURE, 92
INQUIRE PATHS DESCENDENTS, 395
INQUIRE PATHS TO ANCESTORS, 393
POST STRUCTURE, 554
RETRIEVE PATHS TO ANCESTORS, 583
RETRIEVE PATHS TO DESCENDANTS, 585
RETRIEVE STRUCTURE NETWORKS, 589
Structure Storage
description, 5
Structures
CHANGE STRUCTURE IDENTIFIER, 31
CLOSE STRUCTURE, 39
DELETE ALL STRUCTURES, 52
DELETE STRUCTURE, 58
EMPTY STRUCTURE, 68
INQUIRE STRUCTURE IDENTIFIERS, 484
INQUIRE STRUCTURE STATE VALUE, 486

INQUIRE STRUCTURE STATUS, 487
OPEN STRUCTURE, 535
RETRIEVE ALL STRUCTURES, 582
RETRIEVE STRUCTURES, 591
SunView
ESCAPE -2, 74

T

TEXT
`ptext`—C function, 818
TEXT 3
`ptext3`—C function, 820
Text Attributes
SET ANNOTATION STYLE, 613
SET ANNOTATION TEXT ALIGNMENT, 614
SET ANNOTATION TEXT CHARACTER HEIGHT, 616
SET ANNOTATION TEXT CHARACTER UP VECTOR, 617
SET ANNOTATION TEXT PATH, 618
SET CHARACTER EXPANSION FACTOR, 631
SET CHARACTER HEIGHT, 632
SET CHARACTER SPACING, 633
SET CHARACTER UP VECTOR, 634
SET TEXT ALIGNMENT, 784
SET TEXT COLOUR, 786
SET TEXT COLOUR INDEX, 788
SET TEXT FONT, 789
SET TEXT INDEX, 790
SET TEXT PATH, 791
SET TEXT PRECISION, 792
Text Primitives
ANNOTATION TEXT RELATIVE, 8
ANNOTATION TEXT RELATIVE 3, 10
TEXT, 818
TEXT 3, 820
Textured Lines
SET EDGETYPE, 667
SET LINETYPE, 715
TRANSFORM POINT
`ptran_point`—C function, 822
TRANSFORM POINT 3
`ptran_point3`—C function, 823
Transformation Matrix
BUILD TRANSFORMATION MATRIX 3, 22
COMPOSE MATRIX 3, 42
COMPOSE TRANSFORMATION MATRIX 3, 45
ROTATE, 593
ROTATE X, 594
ROTATE Y, 595
ROTATE Z, 596
SCALE 3, 612
SET GLOBAL TRANSFORMATION 3, 681
SET LOCAL TRANSFORMATION 3, 719
SET VIEW REPRESENTATION 3, 805
TRANSFORM POINT 3, 823
TRANSLATE 3, 826
TRANSLATE
`ptranslate`—C function, 825

TRANSLATE 3
ptranslate3—C function, 826
TRAVERSAL STATE LIST, 843
Trimming Curve
NON-UNIFORM B-SPLINE SURFACE, 525

U

UNPOST ALL STRUCTURES
punpost_all_structs—C function, 827
UNPOST STRUCTURE
punpost_struct—C function, 828
UPDATE WORKSTATION
pupd_ws—C function, 829

V

Valuator Input Devices
GET VALUATOR, 126
INITIALIZE VALUATOR, 169
INITIALIZE VALUATOR 3, 173
INQUIRE DEFAULT VALUATOR DEVICE DATA, 266
INQUIRE DEFAULT VALUATOR DEVICE DATA 3, 269
INQUIRE VALUATOR DEVICE STATE, 498
INQUIRE VALUATOR DEVICE STATE 3, 501
REQUEST VALUATOR, 579
SAMPLE VALUATOR, 610
SET VALUATOR MODE, 799
Viewing
EVALUATE VIEW MAPPING MATRIX, 83
EVALUATE VIEW ORIENTATION MATRIX, 88
INQUIRE PREDEFINED VIEW REPRESENTATION, 464
INQUIRE VIEW FACILITIES, 504
INQUIRE VIEW REPRESENTATION, 505
SET VIEW INDEX, 801
SET VIEW REPRESENTATION, 802
SET VIEW REPRESENTATION 3, 805
SET VIEW TRANSFORMATION INPUT PRIORITY, 808

W

Wide Lines
SET EDGEWIDTH SCALE FACTOR, 669
SET LINEWIDTH SCALE FACTOR, 716
Workstation Description Table
PHIGS WORKSTATION DESCRIPTION TABLE, 847
Workstation State Table
INQUIRE WORKSTATION STATE TABLE LENGTHS, 511
INQUIRE WORKSTATION STATE TABLE PLUS LENGTHS, 513
Workstation Transformation
INQUIRE WORKSTATION TRANSFORMATION, 516
INQUIRE WORKSTATION TRANSFORMATION 3, 518
SET WORKSTATION VIEWPORT, 810
SET WORKSTATION VIEWPORT 3, 812
SET WORKSTATION WINDOW, 814
SET WORKSTATION WINDOW 3, 816
WORKSTATION TYPE CREATE
phigs_ws_type_create—C function, 831
WORKSTATION TYPE DESTROY
phigs_ws_type_destroy—C function, 833

WORKSTATION TYPE GET
    phigs_ws_type_get—C function, 834
WORKSTATION TYPE SET
    phigs_ws_type_set—C function, 835
Workstation Types
    INQUIRE LIST OF AVAILABLE WORKSTATION TYPES, 358
    OPEN WORKSTATION, 537
    PHIGS WORKSTATION DESCRIPTION TABLE, 847
    WORKSTATION TYPE CREATE, 831
    WORKSTATION TYPE DESTROY, 833
    WORKSTATION TYPE GET, 834
    WORKSTATION TYPE SET, 835
Workstations
    CLOSE WORKSTATION, 40
    INQUIRE SET OF OPEN WORKSTATIONS, 468
    INQUIRE SET OF WORKSTATIONS TO WHICH POSTED, 470
    INQUIRE WORKSTATION CONNECTION AND TYPE, 509
    INQUIRE WORKSTATION STATE VALUE, 515
    OPEN WORKSTATION, 537
    UPDATE WORKSTATION, 829

X

X Window System
    INTRO_PHIGS, 1
    OPEN WORKSTATION, 537
    WORKSTATION TYPE SET, 835

Z

Z-buffering
    INQUIRE HLHSR IDENTIFIER FACILITIES, 329
    INQUIRE HLHSR MODE, 331
    INQUIRE HLHSR MODE FACILITIES, 332
    SET HLHSR IDENTIFIER, 685
    SET HLHSR MODE, 687