



Index

Symbols

% complete field, 459-460
%Work complete, 460
24-hour calendars, 103

A

accrual methods
costs, 307, 471
setting, 326

Actual cost + Remaining cost = Cost, 46

actual cost of work performed (ACWP)
field, 506

actual costs

calculating, 307, 469
editing, 335-337
field, 466, 505
setting up, 469-470

actual duration

field, 462-463
tracking, 481-482

Actual Duration + Remaining Duration =
Duration, 463

Actual Duration + Remaining Duration =
Work, 44-45

Actual finish date field, 461

actual start dates

field, 461
resources, leveling, 407

actual value, 40

actual work

baselines, 436

tracking

day-by-day, 484-485
per period, 483-484
Actual work field, 463-466
daily hours, 465-466
data, entering
day-by-day, 484-485
per period, 483-484
period hours, 464

Actual Work + Remaining Work =
Work, 44, 466

actual work time, 16

ACWP (actual cost of work performed)
field, 506

adding. *See also* setting

baseline fields, 444
blank rows, 59

budgets

accrual methods, 326
Fixed costs, 322-323
overtime costs, 325-326
resources, 323-325
work resources, 278-279

columns, 79

Resource Sheet view, 243
views, 26

constraints to schedules, 419

contingencies, 380-381

costs

examples, 310-311
labor, 308

- nonlabor, 308
- overall budget, 309
- deadlines, 148, 184-185
- different rates to resources, 329-330, 333
- document references, 378
- effort, 15
- estimates, 265-267
 - duration-based, 267-270
 - effort-based, 271-277
 - House Painting example, 289-290
- extra days/time, 380
- holidays to calendars, 101
 - Project 2002/2003, 105
 - Project 2007, 103-104
- labor costs, 316
 - hourly rates for resources, 317
 - per use costs for resources, 317-318
- milestones, 183
- nonlabor costs
 - cost resource, 320-321
 - Fixed cost, 320
 - material resources, 319
- nonworking time to calendars, 101
 - Project 2002/2003, 105
 - Project 2007, 103-104
- notes, 378
- Project summary task, 114-116
- reserves, 380
- resources, 4
 - ad hoc warnings, 238
 - House Painting example, 288
 - methodology, 567
 - Resource Sheet, 238-239
- resources to tasks, 252, 258
 - Assign Resources dialog box, 258-260
 - duration-based scheduling, 253
 - effort-based scheduling, 253
 - Resource Name field (Gantt Chart view), 262
 - Resources tab (Multiple Task Information dialog box), 262
 - Roofing project example, 264-265
 - split window, 261
 - status bar, 474
 - tasks, 118, 379
 - outlining, 116-119
 - task notes, 121-122
 - text to bars, 538
 - toolbars, 54
 - values, 170
- Advanced tab (Task Information dialog box), 144
- ALAP (As Late As Possible) constraint, 152, 155-156
- All tab (Visual Reports - Create Report dialog box), 509
- allocating resources, 392
- analogous estimating, 303
- Analysis toolbar, 365
- analyzing stakeholders, 7
- As Late As Possible (ALAP) constraint, 152, 155-156
- ASAP constraint (As Soon As Possible), 152, 157
- Assign Resources button, 66
- Assign Resources dialog box, 66, 258-260
- assigning calendars to tasks, 107
- Assignment Information dialog box, 33, 392
- assignment units
 - customizing, 254
 - decimal, 254
 - percentage, 254
 - resources, 256-258

- assignments, 30
 - baselines, 434
 - filtering, 360-363
 - grouping, 358-359
 - information
 - entering/reviewing, 32
 - viewing, 62
- attributes
 - reviewing, 351
 - setting, 112-113
 - tasks, 3
- audit tables, 373-375
- authorization, 88-89
- automated leveling feature, 393-395, 404-405
 - assigned units, changing, 395
 - performing, 414-415
 - resources, adding, 395
 - settings, 403-405
 - leveling settings, 407-410
 - Project leveling decisions, 411
 - Project settings, 406-407
 - resource leveling flags, 413
 - tasks, linking, 394
- automation
 - filtering, 362
 - scheduling changes calculations, 42
- availability
 - calendars, 110
 - resources, 48, 247
- B**
- BAC (Budget at completion) field, 506
- Bar Styles, 357, 537-538
- Bar styles command (Format menu), 537
- Bar Styles dialog box, 537
- Baseline tables, 443
- Baseline values, 41
- baselines
 - Actual work/Remaining work, 436
 - assignments, 434
 - Baseline cost, 434
 - clearing, 441-442
 - defined, 433
 - fields, 433-434
 - adding, 444
 - cost field, 434
 - formulas, 432
 - House Painting example, 448-449
 - methodology, 568
 - multiple, 435, 444
 - reviewing, 441
 - schedules, 4
 - setting, 437-438
 - tasks, 434, 439-441
 - viewing, 434, 442
 - assignments, 444
 - multiple, 444
 - split window, 443
 - Tracking Gantt view, 436, 442
 - Work table, 442
- basis for leveling settings, 407
- BCWP (budgeted cost of work performed) field, 506
- BCWS (budgeted cost of work scheduled) field, 506
- behaviors. scheduling, 144
- blank rows, 59
- bottom-up estimating, 304
- Budget at completion (BAC) field, 506
- budgeted cost of work performed (BCWP) field, 506
- budgeted cost of work scheduled (BCWS) field, 506
- budgets, 301
 - costs
 - accrual methods, 307

- calculating, 305-307
 - Cost resource, 312
 - estimating, 303-304
 - examples of entering, 310-311
 - formula, 306
 - hiding, 316
 - labor, 308
 - nonlabor, 308
 - overall, entering, 309
 - selecting, 313
 - tracking, 307
 - viewing, 314-315
 - currencies, 304
 - Earned Value Cost Indicators Table, 507
 - Earned Value Schedule Indicators Table, 508
 - Earned Value Visual Report, 509-510
 - fields, 42
 - Fixed cost, 322-323
 - resource, 241, 313
 - accrual methods, 326
 - entering, 323-325
 - House-Painting example, 343
 - overtime costs, 325-326
 - work resources, 278-279
 - reviewing, 420
 - Roofing project example, 327-329
 - viewing, 333
- C**
- calculating
 - costs, 46, 305-307, 468
 - actual, 307, 469
 - formula, 306
 - resource, 47
 - duration, 44
 - scheduling changes, 42
 - work, 169
 - Calculation tab (Options dialog box), 350, 469, 564
 - Calendar tab (Options dialog box), 350, 560
 - Calendar view, 368
 - calendars. *See also* schedules
 - 24-hour, 103
 - assigning to tasks, 107
 - availability, 110
 - copying, 109-110
 - creating, 101-106
 - customizing, 101
 - days, selecting, 108
 - end dates, 113
 - holidays, adding, 101
 - Project 2002/2003, 105
 - Project 2007, 103-104
 - methodology, 567
 - Night Shift, 103
 - nonworking time, 101-102
 - Project 2002/2003, 105
 - Project 2007, 103-104
 - options, 560
 - pre-existing, 111
 - resetting, 106
 - resources, 248-249
 - effects on scheduling, 255
 - reviewing, 353
 - standard, 101, 111
 - start dates, 112
 - task, 163-164, 185-186, 351
 - viewing in Project Guide, 546
 - working time, 107-108
 - Can level column (Resource sheet), 413
 - case study (VNLE project)
 - baselines, 449
 - budget resources, 345
 - closing, 532-533
 - deadlines, 191
 - estimates, adding, 293-294
 - linking tasks, 230-232
 - milestones, 190

- predecessors, 233
 - reporting, 518
 - resources
 - adding, 292-293
 - assignments, 295
 - rates, 344-345
 - reviewing, 387
 - schedule, reviewing, 426-428
 - sequencing tasks, 228-230
 - successors, 230
 - task types, 191
 - tracking, 516-518
 - WBS, 190
- Change highlighting, 356, 372
- Change Working Time command (Tools menu), 103
- Change Working Time dialog box, 103, 248
- changing. *See* customizing
- charters, creating, 88-89
- critical paths
 - Roofing project example, 219
 - tasks, linking, 220-221
- Clear Baseline dialog box, 442
- clearing baselines, 441-442
- Close command (File menu), 84
- closing
 - guidelines, 525-526
 - House Painting project, 531-532
 - methodology, 569
 - milestones to 100%, setting, 524
 - projects, 11, 84
 - remaining work, 523
 - schedules, 5, 522-523
 - summary task notes, 524
 - tasks, 523
 - view, 525
- Code field, 247
- codes (resources), 247
- collapsing outlines, 119
- Column Definition dialog box, 26, 79
- columns. *See also* fields
 - adding, 26, 79
 - Can level (Resource sheet), 413
 - hiding, 29
 - Indicator, 66-67
 - moving, 556
 - Predecessors, 217-218
 - Successors, 217-218
 - task information, viewing, 139-140
 - Total cost. *See* Cost field, 305
- commands
- Edit menu, Split Task, 402
- File menu
 - Close, 84
 - New, 95
 - Open, 97
 - Print Preview, 371
 - Save, 96
 - Save As, 126
- Format menu
 - Bar styles, 537
 - Detail styles, 444
 - Format bar, 536
 - Gantt Chart Wizard, 282, 539
 - Gridlines, 474, 542
 - Layout, 542
- Insert menu, Project, 212
- Project menu
 - Filter for, 360
 - Filtered for, More filters, 494
 - Filtered for, Milestones, 489
 - Group by, 358, 497
 - Group by, More groups, 497
 - Outline, Indent, 119
 - Outline, Outdent, 119
 - Outline, Show, 119
 - Project Information, 112

- Reports, Visual Reports, 490
- Resource Information, 245
- Sort, 357
- Task drivers, 372
- Task Information, 142
- Reports menu, Visual Reports, 366, 509
- Tools menu
 - Change Working Time, 103
 - Customize, 165, 250
 - Customize, Toolbars, 53, 552
 - Level resources, 403
 - Organizer, 110, 503
 - Spelling, 349
 - Tracking, 475
 - Tracking, Clear baseline, 442
 - Tracking, Set baseline, 437
 - Tracking, Update project, 473
- View menu
 - More views, 501
 - PERT analysis, 381
 - Resource Sheet view, 239
 - Show change highlighting, 373
 - Table: Work, 442
 - Table, More tables, 374, 500
 - Toolbars, 54
 - Toolbars, Analysis, 365
 - Toolbars, Project Guide, 545
 - Tracking Gantt, 442
 - View Bar, 55
- Views menu, More views, 75
- Window menu
 - Remove Split, 60
 - Split, 60, 443
- communication management, 8
- complete performance index, to
 - field, 507
- Constraint Type field, 37
- constraints, 150-151
 - ALAP, 152, 155-156
 - ASAP, 152, 157
 - available, 151
 - FNET, 157-158
 - FNLT, 153, 158-159
 - grouping, 359
 - MFO, 153, 159-160
 - MSO, 154, 160-161
 - resources, leveling, 407
 - reviewing, 352
 - schedules, 419
 - SNET, 154, 161
 - SNLT, 154, 162-163
 - tasks
 - effort-based scheduling, 14
 - relationships, 152
 - contingencies, 380-381
 - contours, 392
 - controlling project management
 - processes, 11
 - copying
 - calendars, 109-110
 - rows, 29
 - tables, 500
 - Cost = Actual Cost + Remaining
 - Cost, 306, 468
 - Cost field, 35, 305
 - calculating, 468
 - costs, entering, 309
 - values
 - Actual, 40
 - Baseline, 41
 - Current, 40
 - Remaining, 41
 - cost performance index field, 507
 - Cost Rate Table, 330
 - Cost resource, 241, 247, 312, 468
 - entering, 308
 - Fixed cost, 320
 - House-Painting example, 342

- material resources, 319
- tasks, entering, 320-321
- cost variance % field, 507
- Cost variance field, 505
- costs. *See also* budgets
 - accrual methods, 307, 326
 - actual
 - calculating, 307, 469
 - editing, 335-337
 - field, 466, 505
 - setting up, 469-470
 - Baseline cost, 434
 - Budget resource, 313
 - budgeting, 301
 - calculating, 305-307, 468
 - cost resource, 241, 247, 312, 468
 - House-Painting example, 342
 - nonlabor costs, 308
 - tasks, entering, 320-321
 - currencies, 304
 - duration-based scheduling, 334
 - earned value
 - Earned Value Cost Indicators Table, 507
 - Earned Value Schedule Indicators Table, 508
 - Earned Value Table, 505-506
 - Visual Report, 509-510
 - effort-based scheduling, 334
 - estimates, 4, 303-304, 567
 - examples of entering, 310-311
 - extra, adding, 381
 - fields, customizing, 322
 - fixed
 - budgets, 322-323
 - calculating, 46
 - field, 468
 - House-Painting project example, 341-342
 - nonlabor costs, 308
 - notes, 329
 - tasks, 320
 - formula, 306, 468
 - Actual cost + Remaining cost = Cost, 46
 - Standard rate of resource(s) assigned × Work hours = Cost of a task, 47
 - hiding, 316
 - labor
 - entering, 308, 316
 - hourly rates for resources, 317
 - per use costs for resources, 317-318
 - methodology, 568
 - nonlabor
 - cost resource, 320-321
 - entering, 308
 - Fixed cost, 320
 - material resources, 319
 - overall budget, 309
 - overtime, 325-326
 - per use, 335
 - resources, 249
 - calculating, 47
 - different rates, 329-330, 333
 - House-Painting project example, 340-341
 - reviewing, 354, 420
 - Roofing project example, 327-329
 - rounding, 334
 - selecting, 313
 - sorting, 357
 - tracking, 307, 466
 - accrual method, 471
 - Actual costs, 469-470
 - setting up, 469-471
 - viewing, 302, 314-315

- Costs tab (Resource Information dialog box), 249
 - CPI (cost performance index), 507
 - Create Base Calendar dialog box, 109
 - critical paths, 4
 - deadline dates, 283
 - defined, 219
 - formatting, 282-283
 - House Painting example, 425-426
 - methodology, 567
 - reviewing, 354, 416-419
 - shortening, 418
 - text, formatting, 418
 - critical tasks, grouping, 359
 - currencies, viewing, 304
 - Current value, 40
 - Custom Fields dialog box, 165, 250
 - Custom Fields tab
 - Resource Information dialog box, 250-251
 - Task Information dialog box, 145
 - Customize command (Tools menu), 165, 250
 - Customize dialog box, 53
 - Customize, Toolbars command (Tools menu), 53, 552
 - customizing
 - actual costs, 335-337
 - assignment units, 254
 - calendars, 101
 - cost fields, 322
 - document references, 378
 - fields, 28, 556
 - multiple resources, 245
 - resources, 250-251
 - tasks, 145, 164-167
 - filters, 494-496
 - Gantt Chart view, 555
 - groups, 497-498
 - notes, 378
 - Project Guide, 550
 - reports, 499
 - custom tables, creating, 500
 - custom view, creating, 501-502
 - moving custom objects to Organizer, 503
 - resources, 380
 - Standard calendar, 111
 - tables, 500
 - tasks, 379
 - multiple data changes, 142
 - relationships, 204
 - text, 540
 - toolbars, 552
 - views, 479, 501-502
 - working time (calendars), 107-108
 - CV % (cost variance percentage), 507
- ## D
- data
 - entry, 57-59
 - exporting to Excel, 365-366
 - resources
 - availability, 247
 - calendar, 248-249
 - codes, 247
 - groups, 247
 - multiple changes, 244-245
 - names, 246
 - types, 247
 - structure
 - assignments, 30-32
 - columns, hiding, 29
 - fields, 26-28
 - Gantt Chart view, 25-28
 - resources, 30-31
 - tasks, 29-30

- tasks
 - custom, 145
 - Estimated field, 143
 - general, 144
 - multiple changes, 142
 - notes, 145
 - relationships, 144
 - resources, 144
 - scheduling behaviors, 144
 - viewing, 138-140
- days
 - adding to schedules, 380
 - calendars
 - holidays, adding, 101
 - nonworking, adding, 101-105
 - selecting, 108
 - working time, customizing, 107-108
 - Timephased field, 39
- deadlines, 148-150
 - adding, 184-185
 - dates
 - critical paths, 283
 - methodology, 567
 - field, 149
 - reviewing, 352
 - VNLE project case study, 191
- decimal assignment units, 254
- deleting
 - columns, 29
 - Project Guide side pane, 50
 - split windows, 60, 83
 - tasks, 122, 380
 - toolbars, 54
- dependencies (tasks), 201
 - relationship types, 202
 - sequencing, 201
- Detail styles command (Format menu), 444
- Detail Styles dialog box, 444
 - Details For dialog box, 107
- dialog boxes
 - Assign Resources, 66, 258-260
 - Assignment Information, 33, 392
 - Bar Styles, 537
 - Change Working Time, 103, 248
 - Clear Baseline, 442
 - Column Definition, 26, 79
 - Create Base Calendar, 109
 - Custom Fields, 165, 250
 - Customize, 53
 - Detail Styles, 444
 - Details For, 107
 - Filter for Using Resource, 361
 - Format Bar, 536
 - Gantt Chart Wizard, 282
 - Gridlines, 474
 - Insert Project, 212
 - More Filters, 361, 494
 - More Groups, 497
 - More Tables, 374, 500
 - More Views, 83, 501
 - Multiple Resource Information, 245
 - Multiple Task Information, 142, 262
 - OK button, 79
 - Open, 97
 - Options, 557
 - Calculation tab, 350, 469, 564
 - Calendar tab, 350, 560
 - Edit tab, 566
 - General tab, 566
 - Interface tab, 564
 - Save tab, 564
 - Schedule tab, 350, 560-564
 - Security tab, 565
 - settings, 557-559
 - Spelling tab, 349, 565
 - View tab, 559-560
 - Organizer, 110

- Project Help, 34-35
- Project Information, 112-113
 - budgets, viewing, 333
 - status dates, 472
- Project Statistics, 333
- Rename, 165
- Reports, 493
- Resource Information, 32, 239, 242
 - Costs tab, 249
 - Custom Fields tab, 250-251
 - Notes tab, 250
- Resource Leveling, 403, 406
 - actual start dates, 407
 - basis for leveling choices, 407
 - Level only within available slack, 409
 - Leveling can adjust individual assignments on a task, 409
 - Leveling can create splits in remaining work setting, 410
 - leveling orders, 408
 - Priority field, 406
 - resource leveling flags, 413
 - task constraints, 407
- Save As, 96
- Set Baseline, 437
- Table Definition, 374, 500
- Task Information, 31, 122
 - Advanced tab, 144
 - Custom Fields tab, 145
 - General tab, 144
 - multiple task data changes, 142
 - Notes tab, 145
 - Predecessors tab, 144
 - Resources tab, 144
 - task information, viewing, 138-139
 - tasks, linking, 198
- Templates, 124
- Update Project
 - progress, tracking, 477-478
 - schedules, progressing, 473
 - View Definition, 501
 - Visual Reports – Create Report, 367, 509
- document references, 378
- double-clicking, 68, 554
- drivers (task), 356, 371-372
- duration
 - Actual duration
 - field, 462-463
 - tracking, 481-482
 - calculating, 44
 - effort-driven tasks, 178-180
 - estimates, 274, 277
 - field, 35
 - reviewing, 353
 - tasks, 168-172
 - values, 40-41
 - Work field relationship, 175-177
 - Fixed, 173
 - work formula, 176-178
 - Work/Duration fields relationship, 177
 - formula, 463
 - grouping, 359
 - milestones, 148
 - tasks
 - Duration field, 168-172
 - duration-based scheduling, 19
 - effort-based scheduling, 12-13
 - tracking, 467, 479
 - Actual duration/Remaining duration, 481-482
 - done or not done, 479-480
 - Percent complete, 480-481
- duration-based estimates
 - adding, 267-270
 - tracking, 271

duration-based scheduling, 18-20

costs, entering, 334

resource assignments, 253

tracking, 467, 479

Actual duration/Remaining duration,
481-482

done or not done, 479-480

Percent complete, 480-481

Duration x Units = Work, 43-44

E

EAC (Estimate at completion) field, 506

earned value, 504-505

tables

Earned Value Cost Indicators Table,
507

Earned Value Schedule Indicators
Table, 508

Earned Value Table, 505-506

Visual Report, 509-510

Earned value field, 505

Edit, Split Task commands, 402

Edit tab (Options dialog box), 566

editing. *See* customizing

effort. *See also* work

estimates, 169, 273

formula, 466

tasks, adding, 15

tracking, 463-467, 482

actual work day-by-day, 484-485

actual work per period, 483-484

daily hours, 465-466

period hours, 464

effort-based estimates

adding, 271-277

Duration and Units estimates, 277

Effort and Units estimates, 273

Fixed work Task type, 275

Roofing project example, 273

tracking, 278

Work and Duration estimates, 274-275

Work and Units estimates, 273

Work formula variables, 272

effort-based scheduling, 11-18

actual work, tracking, 463-466

daily hours, 465-466

period hours, 464

constraints, 14

costs, entering, 334

resource assignments, 253

tasks

actual work time, 16

defining, 12

effort (work), adding, 15

linking, 14

resources, 15

tracking, 467, 482

actual work day-by-day, 484-485

actual work per period, 483-484

examples, 454-457

work duration, 12-13

Effort-driven field, 37, 172

Advanced tab, 173

Gantt Chart, 173

Task Form view, 174

effort-driven tasks, 172, 178-180

Advanced tab, 173

Gantt Chart, 173

Task Form view, 174

End date - Start date = Duration, 45

end dates

leads/lags effect on, 280-281

setting, 113

entering. *See also* adding

data, 57-59

resource information, 31-32

task information, 30

Entry mode, 57-59

- Entry table, 76
 - equipment resources, 240
 - error checking
 - attributes, 351
 - constraints, 352
 - costs, 354
 - critical path, 354
 - deadlines, 352
 - Duration field, 353
 - filtering, 385-386
 - grouping, 384-385
 - milestones, 352
 - preferences, 350-351
 - resource calendars, 353
 - resources, 353
 - schedules, 348-349
 - spelling, 349
 - styles, 350
 - summary tasks, 351
 - tasks, 351
 - calendars, 351
 - relationships, 352
 - types, 352
 - Work field, 353
 - workloads, 354
 - Estimate at completion (EAC) field, 506
 - Estimated field, 143
 - estimates
 - adding example, 265-267
 - costs, 4, 303-304
 - duration-based
 - adding, 267-270
 - tracking, 271
 - effort-based
 - adding, 271-277
 - Duration and Units estimates, 277
 - Effort and Units estimates, 273
 - Fixed work Task type, 275
 - Roofing project example, 273
 - tracking, 278
 - Work and Duration estimates, 274-275
 - Work and Units estimates, 273
 - Work formula variables, 272
 - House Painting example, 265-267, 289-290
 - methodology, 567
 - PERT method, 381
 - schedule reviews, 376
 - working time, 4
 - executing processes, 10
 - expanding outlines, 119
 - exporting data to Excel, 365-366
 - exposing fields, 26-27, 79
- F**
- facilities resources, 240
 - FF (finish-to-finish) relationship, 203
 - fields. *See also* columns
 - Actual costs, 466
 - Earned Value Table, 505
 - setting up, 469-470
 - Actual duration, 462-463
 - Actual finish date, 461
 - Actual start date, 461
 - Actual work, 463-466
 - daily hours, 465-466
 - data, entering, 483-485
 - period hours, 464
 - baseline, 433-434, 444
 - Baseline cost, 434
 - budget, 42
 - Code, 247
 - Constraint Type, 37
 - Cost, 35, 305
 - Actual value, 40
 - Baseline value, 41
 - calculating, 468

- costs, entering, 309
- Current value, 40
- customizing, 322
- Remaining value, 41
- viewing, 305
- Cost resource, 468
- customizing, 28, 245, 556
- Deadline, 149
- definitions, 36
- Duration, 35
 - Actual value, 40
 - Baseline value, 41
 - Current value, 40
 - Remaining value, 41
 - reviewing, 353
 - tasks, 168-172
 - Work field relationship, 175-177
- Earned Value Cost Indicators Table, 507
- Earned Value Schedule Indicators Table, 508
- Earned Value Table, 505
- Effort-driven, 37, 172
 - Advanced tab, 173
 - Gantt Chart, 173
 - Task Form view, 174
- Estimated, 143
- exposing, 26-27, 79
- Finish, 36
 - Actual value, 40
 - Baseline value, 41
 - Current value, 40
 - Remaining value, 41
- Fixed cost, 468
 - budgets, 322-323
 - House-Painting project example, 341-342
 - nonlabor costs, 308
 - notes, 329
 - tasks, 320
- Group, 247
- grouping, 355, 359
- help, 34
- Hide task bar, 144
- hovering over, 553
- Material cost, 308
- Material resources, 468
- Per Use Cost, 335
- Percent Complete, 144, 459-460
- Percent Work complete, 460
- Physical % complete, 461
- Predecessor, 36, 198
- Priority, 144, 406
- renaming, 165
- Resource Availability, 247
- Resource name, 246, 262
- resources, 250-251
- Roll up Gantt bar to summary, 144
- schedule, 42
- selecting, 28
- sorting, 355-357
- Start, 36
 - Actual value, 40
 - Baseline value, 41
 - Current value, 40
 - Remaining value, 41
- Status date, 472
 - status bar, setting, 474-475
 - viewing, 472-474
- Successors, 36
- Task Information dialog box
 - Advanced tab, 144
 - Custom Fields tab, 145
 - General tab, 144
 - Notes tab, 145
 - Predecessors tab, 144
 - Resources tab, 144
- Task Type, 37, 172
 - Advanced tab, 173

- Gantt Chart, 173
 - Task Form view, 174
- tasks
 - customizing, 164-167
 - multiple changes, 142
 - viewing, 138-140
- Timephased, by, 38
 - day, 39
 - half day, 39
 - hourly, 40
 - minutes, 40
 - month, 39
 - week, 39
- tracking
 - Actual cost, 466
 - Actual duration, 462-463
 - Actual work, 463-466
 - Physical % complete, 461
 - progress, 458-461
 - selecting, 466-467
- Type, 247
- Units, 36
- viewing, 243
- Work, 35
 - Actual value, 40
 - Baseline value, 41
 - Current value, 40
 - Duration field relationship
 - with, 175-177
 - Remaining value, 41
 - reviewing, 353
 - tasks, 169-172
- Work contour, 38
- Work resources, 468
- Workgroup, 248
- File menu commands
 - Close, 84
 - New, 95
 - Open, 97
 - Print Preview, 371
 - Save, 96
 - Save As, 126
- files
 - changes, saving, 99
 - creating, 95
 - formats, 99-100
 - naming, 98
 - opening, 97-98
 - Project summary task, adding, 114-116
 - saving, 96
- Fill Down capability (resources), 245
- Filter for command (Project menu), 360
- Filtered for, Milestones command (Project menu), 489
- Filtered for, More filters, 494
- Filter for Using Resource dialog box, 361
- filters, 355, 360-363
 - customizing, 494-496
 - editing, 499
 - error checking with, 385-386
 - reports, 493-496
- finding templates, 124
 - Project 2002, 124-125
 - Project 2003/2007, 125-126
- finish dates, 461
- Finish field, 36, 40-41
- Finish No Earlier Than (FNET) constraint, 153, 157-158
- Finish No Later Than (FNLT) constraint, 153, 158-159
- finish-to-finish relationship, 203
- finish-to-start relationship, 202, 206
- fixed costs
 - budgets, 322-323
 - calculating, 46
 - field, 468
 - House-Painting project example, 341-342

- nonlabor costs, 308
 - notes, 329
 - tasks, 320
 - Fixed duration, 173
 - work formula, 176-178
 - Work/Duration fields relationship, 177
 - Fixed units, 173-175
 - resources, 174
 - work formula, 174
 - Work/Duration fields relationship, 175
 - Fixed work, 173
 - Fixed work Task type, 275
 - flags (resource leveling), 413
 - FNET (Finish No Earlier Than) constraint, 153, 157-158
 - FNLT (Finish No Later Than) constraint, 153, 158-159
 - Format bar, 536
 - Format bar command (Format menu), 536
 - Format Bar dialog box, 536
 - Format menu commands
 - Bar styles, 537
 - Detail styles, 444
 - Format bar, 536
 - Gantt Chart Wizard, 282, 539
 - Gridlines, 474, 542
 - Layout, 542
 - formatting
 - critical paths, 282-283
 - files, 99-100
 - Gantt Chart bars, 536
 - Bar styles, 537-538
 - Format bar, 536
 - Gantt Chart Wizard, 538-541
 - gridlines, 542
 - layout, 542
 - nonworking time, 542
 - printing, 510
 - task notes, 122
 - text, 355-357, 418, 544
 - timescale, 543
 - toolbars, 552
 - Formatting toolbar, 53-54, 551
 - formulas
 - baseline, 432
 - costs, 306, 468
 - Actual cost + Remaining cost = Cost, 46
 - Standard rate of resource(s) assigned × Work hours = Cost of a task, 47
 - duration, 463
 - scheduling, 43
 - Actual Duration + Remaining Duration = Work, 44-45
 - Actual Work + Remaining Work = Work, 44
 - Duration × Units = Work, 43-44
 - End date - Start date = Duration, 45
 - work
 - effort-based estimates, 272, 466
 - Fixed duration, 176-178
 - Fixed units, 174
 - FS (finish-to-start) relationship, 202, 206
- ## G
- Gantt Chart view, 25, 49
 - bars, formatting, 536
 - Bar styles, 357, 537-538
 - Format bar, 536
 - Gantt Chart Wizard, 538-541
 - baseline fields, 433-434
 - budgets, viewing, 333
 - cost fields, viewing, 305
 - critical paths, formatting, 282-283
 - customizing, 555
 - deadline markers, 149

- double-clicking/right-clicking, 554
- fields
 - customizing, 28
 - exposing, 26-28
- gridlines, 542
- layout, 542
- nonworking time, 542
- overview, 70-71
- Predecessors/Successors columns, 217-218
- Resource Name field, 262
- status bar, adding, 474
- Task type and Effort driven fields, 173
- timescale, 543
- Gantt Chart Wizard, 282
 - bars, formatting, 538-541
 - critical paths, reviewing, 417
 - options, 539
 - tasks, linking, 541
 - text, customizing, 540
- Gantt Chart Wizard command (Format menu), 282, 539
- Gantt Chart Wizard dialog box, 282
- General tab
 - Resource Sheet view, 246-247
 - Options dialog box, 566
 - Task Information dialog box, 144
- generic resources, 241
- graphs
 - Project 2002/2003, 365-366
 - Resource, 397
 - schedules, reviewing, 355, 364
 - Visual Reports, 366-368
- gridlines, formatting, 542
- Gridlines command (Format menu), 474, 542
- Gridlines dialog box, 474
- Group by command (Project menu), 358, 497
 - Group by, More groups command (Project menu), 497
- Group field, 247
- groups, 358-359
 - customizing, 497-498
 - editing, 499
 - error checking with, 384-385
 - fields, 355, 359
 - reporting, 496-498
 - resources, 247
 - roll-up reports, 489
 - tasks, linking, 206
- H**
- half days, 39
- Help, 570
 - fields, 34
 - tips/screen tips/Indicator column, 66-67
- Hide task bar field, 144
- hiding
 - columns, 29
 - costs, 316
 - Project Guide, 50, 545
 - tasks, 119-121
- holidays, adding to calendars, 101
 - Project 2002/2003, 105
 - Project 2007, 103-104
- hours
 - rates (resources), 317
 - Timephased field, 40
- hovering over fields, 553
- I**
- ID only leveling order, 408
- indenting tasks, 119
- Indicator column, 66-67
- Information button, 62
- initiating project management processes, 10

Insert menu commands (Project), 212

Insert Project dialog box, 212

interface (Project)

data entry, 57-59

Indicator column, 66-67

menu bar, 51-53

navigation tools, 51

opening screen, 49-50

Project Guide side pane, 50

right-clicking/double-clicking, 68

screen tips, 66-67

separator bar, 51

split window, 60

task pane, 50

tips, 66-67

toolbars, 53-54

Information button, 62

Link Tasks button, 62

Scroll to Task button, 64-66

Unlink Tasks button, 62

Zoom In button, 63-64

Zoom Out button, 63-64

view bar, 55-56

Interface tab (Options dialog box), 564

interim plans, saving, 437

K – L

keyboard shortcuts, 554

labor costs

entering, 308, 316

hourly rates for resources, 317

per use costs for resources, 317-318

lags, 216

creating, 225-226

effects on schedule end dates, 280-281

House Painting example, 291

methodology, 567

task relationships, 215-217

layout, formatting, 542

Layout command (Format menu), 542

leads, 215

creating, 225-226

effects on schedule end dates, 280-281

House Painting example, 291

methodology, 567

task relationships, 215-217

Level resources command (Tools menu), 403

leveling

automatically, 393, 404-405

assigned units, changing, 395

performing, 414-415

resources, adding, 395

settings. *See* automated leveling feature, settings

tasks, linking, 394

basis for leveling settings, 407

manually, 400-402

orders, 408-409

resources, 113, 394-395

assigned units, changing, 395

resources, adding, 395

tasks, linking, 394

settings

leveling settings, 407, 410-411

project settings, 406-407

resource leveling flag, 413

slack, 409

tasks, splitting, 410

Leveling Gantt view, 412

Link Tasks button, 62, 196-198

linking tasks

backward, 200

between

groups, 206

projects, 211-214

critical paths, 220-221

- effort-based scheduling, 14
- finish-to-start relationship, 206
- Link Tasks button, 62, 196-198
- methodology, 567
- network diagrams, 210
- non-sequential, 197
- Predecessor field, 198
- resource leveling, 394
- Scroll to Task button, 64-66
- sequencing, 196, 207
- split window, 199-201
- summary tasks, 205
- Task Information dialog box, 198
- troubleshooting, 379
- Unlink Tasks button, 62
- Zoom In button, 63-64
- Zoom Out button, 63-64

M

management

- closing projects, 11
- communication, 8
- execution, 10
- initiating processes, 10
- monitoring/controlling processes, 11
- performance reporting, 8
- planning, 10
- procurement, 8
- resources, 10
- risks, 7
- schedules, 6
- scope, defining, 7
- stakeholder analysis, 7
- team development, 9

Material cost field, 308

Material resource, 240, 247

- costs, 308, 319
- field, 468

Maximum units, 256

menu bar, 51-53

methodologies

- baselines, 568
- calendars, 567
- costs, 568
- critical paths, 567
- deadlines dates, 567
- estimates, 567
- leads/lags, 567
- milestones, 567
- planning, 566-568
- project team, 567
- resource assignments, 567
- reviewing schedules, 568
- tasks, reviewing, 567

MFO (Must Finish On) constraint, 153, 159-160

Microsoft Project Association (MPA), 570

milestones, 146-148

- adding, 183
- grouping, 359
- methodology, 567
- report, 488-489
- reviewing, 352
- setting to 100% complete, 524
- VNLE project case study, 190

minutes (Timephased field), 40

monitoring project management processes, 11

months (Timephased field), 39

More Filters dialog box, 361, 494

More Groups dialog box, 497

More Tables dialog box, 374, 500

More views command (View menu), 75, 501

More Views dialog box, 83, 501

moving

- columns, 556
- custom objects, 503

MPA (Microsoft Project Association), 570
.mpp file extension, 99
.mpt file extension, 99
MSO (Must Start On) constraint,
 154, 160-161
Multiple Resource Information dialog
 box, 245
Multiple Task Information dialog box,
 142, 262
multiple Undo feature, 372
Must Finish On (MFO) constraint, 153,
 159-160
Must Start On (MSO) constraint,
 154, 160-161

N

names

 fields, 165
 Project files, 98
 resources, 246
 tasks, 118
navigating Project, 51
 data entry, 57-59
 Indicator column, 66-67
 menu bar, 51-53
 navigation tools, 51
 opening screen, 49-50
 Project Guide side pane, 50
 right-clicking/double-clicking, 68
 screen tips, 66-67
 separator bar, 51
 split window, 60, 82-83
 task pane, 50
 Task Usage view, 83
 tips, 66-67
 toolbar buttons, 62-66
 toolbars, 53-54
 view bar, 55-56

views
 Gantt Chart, 70-71
 More Views, 75
 Resource Sheet, 71-72
 Resource Usage, 73-74
 Task Usage, 72
 Tracking Gantt, 74-75
network diagrams, 208-210, 226-227
New command (File menu), 95
newsgroups, 570
Night Shift calendars, 103
nonlabor costs, 241, 247, 312, 468
 cost resource, 320-321
 entering, 308
 Fixed cost, 320
 House-Painting example, 342
 material resources, 319
 tasks, entering, 320-321
nonworking time
 adding to calendars, 101-102
 Project 2002/2003, 105
 Project 2007, 103-104
 viewing, 542
notes
 adding/changing, 378
 Fixed costs, 329
 resources, 250
 tasks
 adding, 121-122
 closure, 524
Notes tab
 Resource Information dialog box, 250
 Task Information dialog box, 145

O

OK button (dialog boxes), 79
Open command (File menu), 97
Open dialog box, 97

- opening
 - pre-existing calendars, 111
 - Project files, 97-98
- optimizing schedules, 4
- Options dialog box, 557
 - settings, 557-559
 - tabs
 - Calculation, 350, 469, 564
 - Calendar, 350, 560
 - Edit, 566
 - General, 566
 - Interface, 564
 - Save, 564
 - Schedule, 350, 560-564
 - Security, 565
 - Spelling, 349, 565
 - View, 559-560
- orders (leveling), 408-409
- Organizer, 503
- Organizer command (Tools menu), 110, 503
- Organizer dialog box, 110
- outdenting tasks, 119
- Outline, Indent command (Project menu), 119
- Outline, Outdent command (Project menu), 119
- Outline, Show command (Project menu), 119
- outlines
 - expanding/collapsing, 119
 - tasks
 - adding, 116-119
 - indenting, 119
 - outdenting, 119
 - viewing/hiding, 119-121
 - WBS outline Web site, 124
- outlining buttons (toolbars), 119
- overallocating
 - automatic leveling, 393, 404-405, 414-415
 - House Painting example, 423-425
 - leveling resources, 394-395
 - assigned units, changing, 395
 - leveling settings, 407, 410
 - manually, 400-402
 - Project leveling decisions, 411
 - project settings, 406-407
 - resource leveling flags, 413
 - resources, adding, 395
 - tasks, linking, 394
 - reducing, 391
 - Resource Usage view, 391
 - resources, 49, 376
 - task resource assignments, 391
 - viewing, 396, 400
 - Resource Graph, 397
 - Resource Usage view, 396
 - split window view, 399
 - Task Usage view, 398
- overtime costs, 325-326
- P**
 - parametric estimating, 304
 - people resources, 240
 - per use costs, 308, 317-318, 335
 - Percent Complete field, 144, 459-460
 - percent complete values, 19
 - Percent Work complete field, 460
 - percentage assignment units, 254
 - performance reporting, 8
 - PERT (Program, Evaluation, and Review Technique), 381
 - Physical % complete field, 461
 - Planned value field, 505
 - planning
 - methodology, 566-568

- project management processes, 10
- pre-existing calendars, 111
- Predecessor field, 36, 198
- predecessor tasks, 201
- Predecessors column, 217-218
- Predecessors tab (Task Information dialog box), 144, 198
- preference
 - indicators, 176, 554-555
 - reviewing, 350-351
- Print Preview command (File menu), 371
- printing
 - formatting, 510
 - reports, 492, 510
- printing wizard, 510
- priorities (tasks), 406
- Priority field, 144, 406
- Priority, Standard leveling order, 409
- processes (project management), 6
 - closing, 11
 - communication, 8
 - executing, 10
 - initiating, 10
 - monitoring/controlling, 11
 - performance reporting, 8
 - planning, 10
 - procurement, 8
 - resources, 10
 - risks, 7
 - scope, defining, 7
 - stakeholder analysis, 7
 - team development, 9
- procurement management, 8
- Program, Evaluation, and Review Technique (PERT), 381
- progress
 - reports. *See* reports
 - tracking
 - custom views, 479
 - duration-based, 479-482
 - earned value, 504-510
 - effort-based, 482-485
 - fields, 458-467
 - status date bar, setting, 474-475
 - status dates, 472-474
 - Task Update tool, 475-476
 - Tracking table with Tracking Gantt view, 476-477
 - Update Project dialog box, 477-478
 - viewing, 548
- Project, 2
- Project command (Insert menu), 212
- Project Guide
 - calendars, customizing, 546
 - columns, viewing, 556
 - customizing, 550
 - double-clicking/right-clicking, 554
 - fields, creating, 556
 - hiding, 545
 - hovering over fields, 553
 - keyboard shortcuts, 554
 - panels, 546
 - progress, viewing, 548
 - Report pane, 548-550
 - reports, printing, 510
 - side pane, 50
 - smart tags, 554-555
 - toolbars, 551-552
 - tracking views, 547
 - viewing, 545
- Project Help dialog box, 34-35
- Project Information command (Project menu), 112
- Project Information dialog box, 112-113
 - budgets, viewing, 333
 - status dates, 472
- project management processes, 6
 - closing, 11

- communication, 8
 - executing, 10
 - initiating, 10
 - monitoring/controlling, 11
 - performance reporting, 8
 - planning, 10
 - procurement, 8
 - resources, 10
 - risks, 7
 - scope, defining, 7
 - stakeholder analysis, 7
 - team development, 9
 - Project menu commands
 - Filter for, 360
 - Filtered for, Milestones, 489
 - Filtered for, More filters, 494
 - Group by, 358, 497
 - Group by, More groups, 497
 - Outline, Indent, 119
 - Outline, Outdent, 119
 - Outline, Show, 119
 - Project Information, 112
 - Reports, Visual Reports, 490
 - Resource Information, 245
 - Sort, 357
 - Task drivers, 372
 - Task Information, 142
 - project settings, leveling, 406-407
 - Project Statistics dialog box, 333
 - Project summary task, 114, 116
 - project team methodology, 567
 - projects
 - closing, 11, 84
 - creating, 79
 - scope
 - defining, 7
 - identifying, 3
 - templates
 - creating from completed projects, 527-528
 - Options settings, 558
 - updating, 529
 - WBS, 3
- ## Q – R
- QuantumPM QSA (QuantumPM Schedule Auditor), 348
 - recurrences (nonworking time), 104
 - references (documents), 378
 - relationships
 - tasks
 - changing, 204
 - constraints, 152
 - creating, 204-205, 224-225
 - creating with network diagrams, 208-210, 226-227
 - defining, 3
 - finish-to-finish, 203
 - finish-to-start, 202, 206
 - leads/lags, 215-217, 225-226
 - Predecessors tab, 144
 - reviewing, 352
 - start-to-finish, 204
 - start-to-start, 203
 - Work and Duration fields, 175-177
 - Remaining duration, 481-482
 - Remaining value, 41
 - Remaining work, 436
 - Remove Split command (Window menu), 60
 - Rename Field dialog box, 165
 - renaming fields, 165
 - Report menu commands (Visual Reports), 366
 - Report pane (Project Guide), 548-550
 - reports
 - bar chart text, 538
 - customizing, 499

- moving custom objects to
 - Organizer, 503
- tables, creating, 500
- view, creating, 501-502
- Earned Value, 504-505
 - Earned Value Cost Indicators Table, 507
 - Earned Value Schedule Indicators Table, 508
 - Earned Value Table, 505-506
 - Visual Report, 509-510
- filtering, 493-496
- grouping, 496-498
- House Painting example, 515-516
- list of, 486
- performance, 8
- methodology, 568
- milestone, 488-489
- printing, 370, 492, 510
- Progress, 487-488
- Project Guide Report pane, 548-550
- roll-up, 489
- schedules, reviewing, 355, 370
- selecting, 493
- Visual Reports, 366-368, 490-492, 509-510
- Reports dialog box, 493
- Reports menu commands (Visual reports), 509
- Reports, Visual Reports command (Project menu), 490
- reserves, adding, 380
- resetting calendars, 106
- Resource Allocation view, 369
- Resource Availability field, 247
- Resource Graph, 397
- Resource Information command (Project menu), 245
- Resource Information dialog box, 32, 239, 242
 - Costs tab, 249
 - Custom Fields tab, 250-251
 - Notes tab, 250
- Resource Leveling dialog box, 403, 406
 - actual start dates, 407
 - basis for leveling choices, 407
 - Level only within available slack check box, 409
 - Leveling can adjust individual assignments on a task check box, 409
 - Leveling can create splits in remaining work setting, 410
 - leveling orders, 408
 - Priority field, 406
 - resource leveling flags, 413
 - task constraints, 407
- Resource name field, 246, 262
- Resource Sheet view, 31
 - accrual methods, 326
 - budget resources, 323
 - Can level column, 413
 - columns, adding, 243
 - costs, entering, 310-311
 - double-clicking/right-clicking, 554
 - General tab, 246-247
 - overtime costs, 325
 - overview, 71-72
 - resources, 238-239
- Resource Sheet view command (View menu), 239
- Resource Usage view, 32, 80
 - overall allocation, 391, 396
 - overview, 73-74
 - schedules, reviewing, 369

- resources, 30
 - adding, 4
 - ad hoc warnings, 238
 - House Painting example, 288
 - Resource Sheet, 238-239
 - allocating, 392
 - assigning, 252, 258, 567
 - Assign Resources dialog box, 258-260
 - duration-based scheduling, 253
 - effort-based scheduling, 253
 - Resource Name field (Gantt Chart view), 262
 - Resources tab (Multiple Task Information dialog box), 262
 - Roofing project example, 264-265
 - split window, 261
 - availability, 48, 247
 - budget, 241, 313
 - accrual methods, 326
 - entering, 323-325
 - House-Painting example, 343
 - overtime costs, 325-326
 - work, 278-279
 - calendars, 248-249
 - effects on scheduling, 255
 - reviewing, 353
 - codes, 247
 - cost, 47, 241, 247-249, 312
 - calculating, 47
 - different rates, 329-333
 - House-Painting example, 340-342
 - nonlabor costs, 308
 - tasks, entering, 320-321
 - tracking, 466
 - custom fields, 250-251
 - customizing, 380
 - double-clicking/right-clicking, 554
 - duration-based estimates, 267-271
 - effort-based estimates, 271-277
 - Duration and Units, 277
 - Effort and Duration, 274
 - Effort and Units, 273
 - Fixed task type, 275
 - tracking, 278
 - Work and Duration, 275
 - Work and Units, 273
 - Work formula variables, 272
- effort-driven designation, 178-180
- filtering, 355, 360-363
- Fixed units, 174
- generic, 241
- grouping, 247, 358-359
- Help, 570
- hourly rates, 317
- information
 - entering, 31
 - reviewing, 31
 - viewing, 62
- leads/lags, 291
- leveling, 113, 394-395
 - assigned units, changing, 395
 - automatically. *See* automated leveling feature
 - flags, 413
 - leveling settings, 407, 410
 - manually, 400-402
 - Project leveling decisions, 411
 - project settings, 406-407
 - resource leveling flag, 413
 - resources, adding, 395
 - tasks, linking, 394
- Material, 240, 247
 - costs, 308, 319
 - field, 468
- Microsoft Project home page, 570
- Microsoft Project newsgroups, 570
- MPA, 570

- multiple data changes
 - Fill Down capability, 245
 - Multiple Resource Information dialog box, 244
 - names, 246
 - notes, 250
 - overallocation, 49, 376
 - automatically leveling, 414-415
 - House Painting example, 423-425
 - leveling, 393-395, 400-407, 410-413
 - reducing, 391
 - Resource Usage view, 391
 - task resource assignments, 391
 - viewing, 396, 400
 - per use costs, 317-318
 - pools, 283-285
 - project management, 10
 - reviewing, 353
 - search engines, 570
 - selecting, 246
 - sharing, 283-285
 - sorting, 357
 - tasks, 144
 - effort-based scheduling, 15
 - overallocation, 391
 - types, 247
 - units, 48
 - assignment, 256-258
 - effects on scheduling, 254-255
 - maximum, 256
 - viewing, 238, 242
 - adding columns to Resource Sheet, 243
 - Resource Information dialog box, 242
 - tables, 243-244
 - Work, 240, 247
- Resources tab
- Multiple Task Information dialog box, 262
 - Task Information dialog box, 144
- reviewing. *See also* tracking
- attributes, 351
 - baselines, 442-444
 - budgets, 420
 - constraints, 352
 - costs, 354, 420
 - critical paths, 354, 416-419
 - deadlines, 352
 - methodology, 568
 - milestones, 352
 - overallocation
 - Resource Graph, 397
 - Resource Usage view, 396
 - Split Window view, 399
 - Task Usage view, 398
 - preferences, 350-351
 - resources, 353
 - calendars, 353
 - information, 31-32
 - schedules, 4, 354-356
 - audit tables, 373-375
 - Change highlighting, 356, 372
 - checklist, 376-377
 - error checking, 348-349
 - estimates, 376
 - filtering, 355, 360-363, 385-386
 - formatting text, 355-357
 - graphs, 355, 364
 - grouping, 355, 358-359, 384-385
 - manually, 356
 - overallocation, 376
 - overview, 376
 - printing, 370
 - reports, 355, 370
 - sorting, 355-357
 - task drivers, 356, 371-372
 - views, 355, 363, 368-369
 - spelling, 349-350
 - styles, 350

- summary tasks, 351
- tasks, 351
 - baselines, 441
 - calendars, 351
 - information, 30
 - methodologies, 567
 - relationships, 352
 - types, 352
- WBS, 94
- workloads, 354
- right-clicking, 68, 554
- risk management, 7
- Roll up Gantt bar to summary field, 144
- roll-up reports, 489
- rounding costs, 334
- rows
 - blank, 59
 - copying, 29
- rules, scheduling, 24-25

S

- Save As command (File menu), 126
- Save As dialog box, 96
- Save command (File menu), 96
- Save tab (Options dialog box), 564
- saving
 - files, 96, 99
 - filters, 363
 - interim plans, 437
 - templates, 126-128, 527-528
- schedule fields, 42
- schedule performance indicator (SPI)
 - field, 508
- Schedule tab (Options dialog box), 350, 560-564
- schedule variance % field, 508
- Schedule variance field, 505
- schedules. *See also* calendars
 - automatically calculating, 42

- baselines, 4, 433
 - Actual work/Remaining work, 436
 - assignments, 434
 - Baseline cost, 434
 - clearing, 441-442
 - fields, 433-434
 - formulas, 432
 - House Painting example, 448-449
 - methodology, 568
 - multiple, 435, 444
 - reviewing, 441
 - schedules, 4
 - setting, 437-438
 - tasks, 434, 439-441
 - viewing, 434-436, 442-444
- behaviors, 144
- changes, viewing, 448-449
- setting, 448
 - multiple, 435
 - reviewing, 441
 - setting, 437-438
 - tasks, 434, 439-441
 - viewing, 434, 442-444
- closing, 5, 522
 - guidelines, 525-526
 - House Painting project, 531-532
 - methodology, 569
 - milestones to 100%, 524
 - remaining work, 523
 - summary task notes, 524
 - tasks, 523
 - view, 525
- configuration settings, 560-564
- constraints, adding, 419
- contingencies, 380-381
- duration-based, 18-20
 - costs, entering, 334
 - resource assignments, 253
 - tracking, 467, 479-482

- effort-based, 11-18
 - actual work time, 16
 - actual work, tracking, 463-466
 - constraints, 14
 - costs, entering, 334
 - effort (work), adding, 15
 - linking tasks, 14
 - resource assignments, 253
 - resources, 15
 - tasks, defining, 12
 - tracking, 454-457, 467, 482-485
 - work duration, 12-13
- end dates, 113, 280-281
- error checking, 348-349
- estimates
 - adding, 265-267
 - duration-based, 267-270
 - effort-based, 271-277
- extra costs, adding, 381
- extra days/time, 380
- formulas, 43
 - Actual Duration + Remaining
 - Duration = Work, 44-45
 - Actual Work + Remaining Work =
Work, 44
 - Duration × Units = Work, 43-44
 - End date - Start date = Duration, 45
- managing, 6
- optimizing, 4
- planning, 566-568
- progressing, 473
- reserves, 380
- resources, 380
- reviewing, 4, 354-356
 - audit tables, 373-375
 - Change highlighting, 356, 372
 - checklist, 376-377
 - estimates, 376
 - filtering, 355, 360-363, 385-386
 - formatting text, 355-357
 - graphs, 355, 364
 - grouping, 355, 358-359, 384-385
 - manually, 356
 - methodology, 568
 - overallocation, 376
 - overview, 376
 - printing, 370
 - reports, 355, 370
 - sorting, 355-357
 - task drivers, 356, 371-372
 - views, 355, 363, 368-369
- rules, 24-25
- setting up, 128-130
- start dates, 112
- tasks
 - adding, 379
 - customizing, 379
 - deleting, 380
- tracking, 5
 - benefits, 453
 - custom views, 479
 - duration-based, 479-482
 - earned value, 504-510
 - effort-based, 482-485
 - effort-based whitepaper example,
454-457
 - elements, 452
 - fields, 458-467
 - House Painting example, 513-514
 - methodology, 568
 - Project Guide views, 547
 - status date bar, setting, 474-475
 - status dates, 472-474
 - Task Update tool, 475-476
 - Tracking table with Tracking Gantt
view, 476-477
 - Update Project dialog box, 477-478

- scope
 - defining, 7, 89-91
 - identifying, 3
 - statement, 90-91
- screen tips, 66-67
- Scroll to Task button, 64-66
- Security tab (Options dialog box), 565
- selecting
 - calendar days, 108
 - costs, 313
 - currencies, 304
 - fields, 28
 - filters, 494
 - progress tracking fields, 466-467
 - reports, 493
 - resources, 246
- sequencing tasks, 207
 - network diagrams, 208-210, 226-227
 - predecessors/successors, 201
- Set Baseline dialog box, 437
- setting. *See also* adding
 - accrual methods, 326
 - attributes
 - end dates, 113
 - Project Information dialog box, 112-113
 - baselines, 437-438
 - costs, tracking, 469-471
 - accrual method, 471
 - Actual costs, 469-470
 - end dates, 113
 - milestones to 100% complete, 524
 - schedules, 128-130
 - start dates, 112
 - status date bar, 474-475
 - task lists, 130-131
 - task types, 186-187
- settings, leveling
 - leveling settings, 407, 410
 - Project leveling decisions, 411
 - project settings, 406-407
 - resource leveling flags, 413
- SF (start-to-finish) relationship, 204
- sharing resources, 283-285
- shortcuts (keyboard), 554
- shortening critical paths, 418
- Show change highlighting command (View menu), 373
- slack (leveling), 409
- Smart Tags, 176, 554-555
- SNET (Start No Earlier Than) constraint, 154, 161
- SNLT (Start No Later Than) constraint, 154, 162-163
- Sort command (Project menu), 357
- sorting, 355-357
- spell checking, 349
- Spelling command (Tools menu), 349
- Spelling tab (Options dialog box), 349, 565
- SPI (schedule performance indicator) field, 508
- Split command (Window menu), 60, 443
- Split Task command (Edit menu), 402
- Split Window view, 60, 82
 - baselines, 443
 - deleting, 83
 - opening, 82
 - overallocation, viewing, 399
 - resources, assigning, 261
 - tasks, linking, 199-201
- splitting tasks, 402, 410
- spreadsheets compared to projects, 2
- SS (start-to-start) relationship, 203
- stakeholder analysis, 7
- standard calendars, 101, 111
- Standard leveling order, 408

Standard rate of resource(s) assigned ×
 Work hours = Cost of a task, 47

Standard rates, 308

Standard toolbar, 53-54, 551

start dates

- actual, 407, 461
- setting, 112

Start field, 36, 40-41

Start No Earlier Than (SNET) constraint,
 154, 161

Start No Later Than (SNLT) constraint,
 154, 162-163

start-to-finish relationship, 204

start-to-start relationship, 203

statements, 90-91

Status date field, 472

- status bar, setting, 474-475
- viewing, 472-474

status dates, 472

- status bar, setting, 474-475
- viewing, 472-474

styles, reviewing, 350

subtasks

- outlining, 116-119
- viewing/hiding, 119-121

successor tasks, 201

Successors column, 217-218

Successors field, 36

summary tasks

- closure notes, 524
- linking, 205
- outlining, 116-119
- reviewing, 351
- viewing/hiding, 119-121

SV % (schedule variance percentage)
 field, 508

T

Table Definition dialog box, 374, 500

Table, More tables command (View
 menu), 374, 500

Table: Work command (View menu), 442

tables, 75

- audit, 373-375
- Baseline, 443
- copying, 500
- Cost Rate, 330
- customizing, 500
- earned value
 - Earned Value Cost Indicators
 Table, 507
 - Earned Value Schedule Indicators
 Table, 508
 - Earned Value Table, 505-506
- Entry, 76
- resources, viewing, 243-244
- schedules, reviewing, 355, 363
- task information, viewing, 140
- Tracking, 76, 476-477
- viewing, 76
- Work, 442

Task drivers command (Project
 menu), 372

Task Form view, 174

Task Information command (Project
 menu), 142

Task Information dialog box, 31, 122

- Advanced tab, 144
- Custom Fields tab, 145
- General tab, 144
- multiple task data changes, 142
- Notes tab, 145
- Predecessors tab, 144
- Resources tab, 144

tasks

- information, viewing, 138-139
- linking, 198

- Task Type field, 37, 172
 - Advanced tab, 173
 - Gantt Chart, 173
 - Task Form view, 174
- Task Update tool, 475-476
- Task Usage view, 83
 - accrual methods, 326
 - budget resources, 325
 - costs, entering, 311
 - overallocation, viewing, 398
 - overview, 72
- tasks, 29
 - actual work time, 16
 - adding, 118, 379
 - outlining, 116-119
 - task notes, 121-122
 - attributes, 3
 - audit tables, 373-375
 - baselines
 - fields, 434
 - setting, 439-441
 - calendars, 163-164, 185-186
 - assigning, 107
 - reviewing, 351
 - closing, 523
 - constraints, 150-151
 - ALAP, 152, 155-156
 - ASAP, 152, 157
 - available, 151
 - effort-based scheduling, 14
 - FNET, 157-158
 - FNLT, 153, 158-159
 - MFO, 153, 159-160
 - MSO, 154, 160-161
 - resources, leveling, 407
 - reviewing, 352
 - SNET, 154, 161
 - SNLT, 154, 162-163
 - task relationships, 152
 - costs
 - assigning, 308-311
 - calculating, 47
 - customizing, 322
 - estimating, 4
 - reviewing, 354
 - critical, 359
 - critical paths, 4
 - reviewing, 354
 - shortening, 418
 - custom fields, 145
 - customizing, 379
 - data
 - Estimated field, 143
 - multiple changes, 142
 - deadlines, 148-150
 - adding, 184-185
 - reviewing, 352
 - deleting, 380
 - dependencies, 201-202
 - double-clicking/right-clicking, 554
 - driver schedules, reviewing,
 - 356, 371-372
 - duration
 - duration-based scheduling, 19
 - effort-based scheduling, 12-13
 - Duration field, 168-172, 353
 - earned value, 504-505
 - Earned Value Cost Indicators
 - Table, 507
 - Earned Value Schedule Indicators
 - Table, 508
 - Earned Value Table, 505-506
 - Visual Report, 509-510
 - effort (work), adding, 15
 - effort-driven, 172, 178-180
 - Advanced tab, 173
 - Gantt Chart, 173
 - Task Form view, 174

- estimates, 169
- fields, customizing, 164-167
- filtering, 355, 360-363
- general data, 144
- grouping, 358-359
- indenting, 119
- information
 - entering, 30
 - viewing, 62, 138-140
- labor costs, entering, 316-318
- lags, 216, 225-226
 - effects on schedule end dates, 280-281
 - House Painting example, 291
 - task relationships, 215-217
- leads, 215, 225-226
 - effects on schedule end dates, 280-281
 - House Painting example, 291
 - task relationships, 215-217
- leveling adjustments, 409
- linking
 - backward, 200
 - between groups, 206
 - between projects, 211-214
 - critical paths, 220-221
 - effort-based scheduling, 14
 - finish-to-start relationship, 206
 - Link Tasks button, 62, 196-198
 - methodology, 567
 - network diagrams, 210
 - non-sequential, 197
 - Predecessor field, 198
 - resource leveling, 394
 - Scroll to Task button, 64-66
 - sequencing, 207
 - sequentially, 196
 - split window, 199-201
 - summary tasks, 205
 - Task Information dialog box, 198
 - troubleshooting, 379
 - Unlink Tasks button, 62
 - Zoom In button, 63-64
 - Zoom Out button, 63-64
- lists, 2, 91. *See also* WBS
- milestones, 146-148
 - adding, 183
 - methodology, 567
 - reviewing, 352
- naming, 118
- nonlabor costs, entering
 - cost resource, 320-321
 - Fixed cost, 320
 - material resources, 319
- notes, 145
 - adding/changing, 378
 - closure, 524
- outdenting, 119
- pane, 50
- percent complete values, 19
- predecessor, 201
- priorities, 406
- Project summary, 114-116
- relationships, 144
 - changing, 204
 - constraints, 152
 - creating, 204-205, 224-225
 - creating with network diagrams, 208-210, 226-227
 - defining, 3
 - finish-to-finish, 203
 - finish-to-start, 202, 206
 - leads/lags, 215-217, 225-226
 - reviewing, 352
 - start-to-finish, 204
 - start-to-start, 203
- resources, 144
 - adding, 567

- assigning, 252-253, 258-265
- effort-based scheduling, 15
- overallocation, 391
- reviewing, 353
- reviewing, 351
 - attributes, 351
 - calendars, 351
 - constraints, 352
 - costs, 354
 - critical paths, 354
 - deadlines, 352
 - methodology, 567
 - milestones, 352
 - preferences, 350-351
 - relationships, 352
 - resources, 353
 - spell checking, 349
 - styles, 350
 - summary tasks, 351
 - types, 352
 - Work/Duration fields, 353
 - workloads, 354
- scheduling behaviors, 144
- sequencing
 - network diagrams, 208-210, 226-227
 - predecessors/successors, 201
- sorting, 357
- splitting, 402, 410
- successor, 201
- summary
 - closure notes, 524
 - linking, 205
 - reviewing, 351
- text, formatting, 544
- types, 172
 - Advanced tab, 173
 - Fixed, 275
 - Fixed duration, 173, 177
- work formula, 176-178
- Fixed units, 173-175
- Fixed work, 173
- Gantt Chart, 173
- reviewing, 352
- setting, 186-187
- Task Form view, 174
- VNLE project case study, 191
- viewing, 80
- Work field, 169-172
 - resources, adding, 169
 - reviewing, 353
 - values, entering, 170
- workloads, reviewing, 354
- zero project summary task
 - line, 114-116
- TCPI (to complete performance)
 - field, 507
- team development management, 9
- templates, 123-124
 - creating from completed
 - projects, 527-528
 - finding, 124
 - Project 2002, 124-125
 - Project 2003/2007, 125-126
 - Options settings, 558
 - saving, 126-128
 - updating, 126-128, 529
 - WBS, 93
- Templates dialog box, 124
- text
 - bar charts, 538
 - customizing, 540
 - formatting, 355-357, 418, 544
- time
 - adding to schedules, 380
 - nonworking, 101-105
 - working, 107-108
- Timephased field, 38
 - day, 39

- half day, 39
- hourly, 40
- minutes, 40
- month, 39
- week, 39
- timescales
 - formatting, 543
 - zooming in/out, 63
- tips, 66-67
- toolbars, 53-54
 - adding/deleting, 54
 - Analysis, 365
 - customizing, 552
 - Formatting, 53-54
 - Information button, 62
 - Link Tasks button, 62
 - outlining buttons, 119
 - Project Guide, 551-552
 - Scroll to Task button, 64-66
 - Standard, 53-54
 - Unlink Tasks button, 62
 - Zoom In button, 63-64
 - Zoom Out button, 63-64
- Toolbars command (View menu), 54
- Toolbars, Analysis command (View menu), 365
- Toolbars, Project Guide command (View menu), 545
- tools
 - navigation, 51
 - QuantumPM QSA, 348
 - Task Update, 475-476
- Tools menu commands
 - Change Working Time, 103
 - Customize, 165, 250
 - Customize, Toolbars, 53, 552
 - Level resources, 403
 - Organizer, 110, 503
 - Spelling, 349
 - Tracking, 475
 - Tracking, Clear baseline, 442
 - Tracking, Set baseline, 437
 - Tracking, Update project, 473
- top-down estimating, 303
- Total cost column. *See* Cost field
- tracking
 - benefits, 453
 - costs, 307, 466, 469-471
 - defined, 451
 - duration-based, 479
 - Actual duration/Remaining duration, 481-482
 - done or not done, 479-480
 - estimates, 271
 - Percent complete, 480-481
 - schedules, 467
 - effort-based, 482
 - actual work day-by-day, 484-485
 - actual work per period, 483-484
 - schedules, 454, 467
 - elements, 452
 - estimates, 278
 - House Painting example, 513-514
 - methodology, 568
 - Physical % complete field, 461
 - progress
 - Actual work field, 464-466
 - Actual duration field, 462-463
 - Actual finish date field, 461
 - Actual start date field, 461
 - Actual work field, 463-466
 - custom views, 479
 - earned value, 504-510
 - fields, 458
 - Percent complete field, 459-460
 - Percent Work complete field, 460
 - selecting fields, 466-467
 - status date bar, setting, 474-475

- status dates, 472-474
- Task Update Tool, 475-476
- Tracking table with Tracking Gantt view, 476-477
- Update Project dialog box, 477-478
- Project Guide views, 547
- schedules, 5
- whitepaper example, 454-457
 - final schedule, 457
 - Week 1 status, 454
 - Week 2 status, 455
 - Week 3 status, 456
- work effort, 463-466
 - daily hours, 465-466
 - period hours, 464
- Tracking command (Tools menu), 475
- Tracking Gantt command (View menu), 442
- Tracking Gantt view
 - baselines, 436, 442
 - overview, 74-75
 - Status date field, 472
 - Tracking table, 476-477
- Tracking table, 76, 476-477
- Tracking, Clear Baseline command (Tools menu), 442
- Tracking, Set baseline command (Tools menu), 437
- Tracking, Update project command (Tools menu), 473
- troubleshooting
 - blank rows, 59
 - task links, 379
- Type field, 247
- types
 - resources, 247
 - task, 172
 - Advanced tab, 173
 - Fixed, 275

- Fixed duration, 173, 176-178
- Fixed units, 173-175
- Fixed work, 173
- Gantt Chart, 173
- reviewing, 352
- setting, 186-187
- Task Form view, 174
- VNLE project cast study, 191

U

- Undo feature, 372
- units
 - assignment
 - customizing, 254
 - decimal, 254
 - percentage, 254
 - resources, 256-258
 - estimates, 273, 277
 - Fixed, 173-175
 - Maximum units, 256
 - resources, 48
 - assignment, 256-258
 - effects on scheduling, 254-255
 - maximum, 256
- Units field, 36
- Unlink Tasks button, 62
- Update Project dialog box
 - progress, tracking, 477-478
 - schedules, progressing, 473
- updating templates, 126-128, 529

V

- VAC (Variance at completion) field, 506
- values
 - Actual, 40
 - Baseline, 41
 - Current, 40-41
 - Remaining, 41
- view bar, 55-56

- View Bar command (View menu), 55
- View Definition dialog box, 501
- View menu commands
 - More views, 75, 501
 - PERT analysis, 381
 - Resource Sheet view, 239
 - Show change highlighting, 373
 - Table: Work, 442
 - Table, More tables, 374, 500
 - Toolbars, 54
 - Toolbars, Analysis, 365
 - Toolbars, Project Guide, 545
 - Tracking Gantt, 442
 - View Bar, 55
- View tab (Options dialog box), 559-560
- viewing
 - assignments, 62
 - baselines, 434, 442
 - assignments, 444
 - multiple, 444
 - split window, 443
 - Tracking Gantt view, 436, 442
 - Work table, 442
 - budgets, 333
 - calendars, 546
 - constraints, 151
 - costs, 314-315
 - currencies, 304
 - fields, 243
 - nonworking time, 102, 542
 - overallocation, 396, 400
 - Resource Graph, 397
 - Resource Usage view, 396
 - split window view, 399
 - Task Usage view, 398
 - progress, 548
 - Project Guide, 50, 545
 - Project summary task, 116
 - resources, 238, 242
 - adding columns to Resource Sheet, 243
 - information, 62
 - Resource Information dialog box, 242
 - tables, 243-244
 - split window, 82
 - status dates, 472-474
 - tables, 76
 - tasks
 - information, 62, 138-140
 - outlines, 119-121
 - timescale, 543
- views
 - Calendar, 368
 - closing, 525
 - columns
 - adding, 26
 - moving, 556
 - costs, 302
 - customizing, 479, 501-502
 - Gantt Chart, 25, 49
 - bar styles, 357
 - bars, formatting, 536-541
 - baseline fields, 433-434
 - budgets, viewing, 333
 - cost fields, viewing, 305
 - critical paths, formatting, 282-283
 - customizing, 555
 - deadline markers, 149
 - double-clicking/right-clicking, 554
 - fields, customizing, 28
 - fields, exposing, 26-28
 - gridlines, 542
 - layout, 542
 - nonworking time, 542
 - overview, 70-71
 - Predecessors/Successors columns, 217-218

- Resource Name field, 262
- status bar, adding, 474
- Task type and Effort driven fields, 173
- timescale, 543
- Leveling Gantt, 412
- More Views, 75
- printing, 370
- Resource Allocation, 369
- resource information, 31-32
- Resource Sheet, 31
 - accrual methods, 326
 - adding resources, 238-239
 - budget resources, 323
 - Can level column, 413
 - columns, adding, 243
 - costs, entering, 310-311
 - double-clicking/right-clicking, 554
 - General tab, 246-247
 - overtime costs, 325
 - overview, 71-72
 - viewing resources, 238
- Resource Usage, 32, 80
 - overallocation, 391, 396
 - overview, 73-74
 - schedules, reviewing, 369
- resources, viewing, 243-244
- schedules, reviewing, 363, 368-369
- Split Window, 60, 82
 - baselines, 443
 - deleting, 83
 - opening, 82
 - overallocation, viewing, 399
 - resources, assigning, 261
 - tasks, linking, 199-201
- Task Form, 174
- task information, 30
- Task Usage, 83
 - accrual methods, 326
 - budget resources, 325
 - costs, entering, 311
 - overallocation, viewing, 398
 - overview, 72
- tasks, 80
- Tracking Gantt
 - baselines, 436, 442
 - overview, 74-75
 - Status date field, 472
 - Tracking table, 476-477
- Visual Reports, 366-368, 490-492, 509-510
- Visual Reports command (Report menu), 366, 509
- Visual Reports - Create Report dialog box, 367, 509
- VNLE project case study
 - baselines, 449
 - budget resources, 345
 - closing, 532-533
 - deadlines, 191
 - estimates, adding, 293-294
 - linking tasks, 230-232
 - milestones, 190
 - predecessors, 233
 - reporting, 518
 - resources
 - adding, 292-293
 - assignments, 295
 - rates, 344-345
 - reviewing, 387
 - schedule, reviewing, 426-428
 - sequencing tasks, 228-230
 - successors, 230
 - task types, 191
 - tracking, 516-518
- WBS, 190

W**WBS (work breakdown structure), 3**

- creating, 3, 91-94
- outlines
 - characteristics, 116-121
 - expanding/collapsing, 119
- Project summary task, adding, 114-116
- reviewing, 94
- setting up, 130-131
- task notes, 121-122
- templates, 93, 123-124
 - finding, 124-126
 - saving, 126-128
 - updating, 126-128
- visual diagramming method, 93
- VNLE project case study, 190

web sites

- Microsoft Project, 570
- Microsoft Project newsgroups, 570
- WBS outlines, 124

weeks (Timephased field), 39**Window menu commands**

- Remove Split, 60
- Split, 60, 443

wizards

- Gantt Chart, 282
 - bars, formatting, 538-541
 - critical paths, reviewing, 417
 - options, 539
 - tasks, linking, 541
 - text, customizing, 540

printing, 510

work. *See also* effort

- actual
 - baselines, 436
 - tracking, 483-485
- budget work resources, 278-279
- calculating, 169
- closing remaining, 523

contouring, 392**effort, tracking, 463-467**

- daily hours, 465-466
- formula, 466
- period hours, 464

effort-based estimates

- adding, 271-277
- Duration and Units estimates, 277
- Effort and Units estimates, 273
- Fixed work Task type, 275
- Roofing project example, 273
- tracking, 278
- Work and Duration
 - estimates, 274-275
- Work and Units estimates, 273
- Work formula variables, 272

effort-driven tasks, 178-180**Fixed, 173****formula**

- Fixed duration, 176-178
- Fixed units, 174

Remaining, 436**resources, 240, 247****sequencing**

- network diagrams, 208-210
- predecessor/successor tasks, 201

tasks, 169-172**time, estimating, 4****WBS**

- creating, 91-94
- reviewing, 94
- templates, 93
- visual diagramming method, 93

work breakdown structure. *See* WBS**Work contour field, 38****Work field, 35**

- Duration field relationship
 - with, 175-177
- reviewing, 353

tasks, 169-172
 resources, adding, 169
 values, entering, 170
 values, 40-41
Work resources field, 468
Work table, 442
Workgroup field, 248
working time (calendars), 107-108
workloads, reviewing, 354

Z

zero project summary task line, 114-116
Zoom In button, 63-64
Zoom Out button, 63-64