

## bfw\_mp\_control

This is the example vignette for function: `bfw_mp_control` from the [PrjLabEquiBFW Package](#).

### Map of Control Parameters

```
[bl_display_status, bl_display_verbose_status, bl_verbose] = deal(true, true, true);  
mp_func_supply = bfw_mp_control(bl_display_status, bl_display_verbose_status, bl_verbose);
```

```
pos = 7 ; key = fmin_controls_a  
    Display: 'off'  
    MaxFunEvals: 2500  
    MaxIter: 2000  
    TolFun: 1.0000e-05  
    TolX: 1.0000e-05  
    FunValCheck: []  
    OutputFcn: []  
    PlotFcns: []  
    ActiveConstrTol: []  
    Algorithm: []  
    AlwaysHonorConstraints: []  
    DerivativeCheck: []  
    Diagnostics: []  
    DiffMaxChange: []  
    DiffMinChange: []  
    FinDiffRelStep: []  
    FinDiffType: []  
    GoalsExactAchieve: []  
    GradConstr: []  
    GradObj: []  
    HessFcn: []  
    Hessian: []  
    HessMult: []  
    HessPattern: []  
    HessUpdate: []  
    InitBarrierParam: []  
    InitTrustRegionRadius: []  
    Jacobian: []  
    JacobMult: []  
    JacobPattern: []  
    LargeScale: []  
    MaxNodes: []  
    MaxPCGIter: []  
    MaxProjCGIter: []  
    MaxSQPIter: []  
    MaxTime: []  
    MeritFunction: []  
    MinAbsMax: []  
    NoStopIfFlatInfeas: []  
    ObjectiveLimit: []  
    PhaseOneTotalScaling: []  
    Preconditioner: []  
    PrecondBandWidth: []  
    RelLineSrchBnd: []  
    RelLineSrchBndDuration: []  
    ScaleProblem: []  
    SubproblemAlgorithm: []  
    TolCon: []  
    TolConSQP: []  
    TolGradCon: []  
    TolPCG: []  
    TolProjCG: []
```

```

        TolProjCGAbs: []
        TypicalX: []
        UseParallel: []

pos = 8 ; key = fmin_controls_b
    Display: 'off'
    MaxFunEvals: []
    MaxIter: []
    TolFun: []
    TolX: []
    FunValCheck: []
    OutputFcn: []
    PlotFcns: []
    ActiveConstrTol: []
    Algorithm: []
    AlwaysHonorConstraints: []
    DerivativeCheck: []
    Diagnostics: []
    DiffMaxChange: []
    DiffMinChange: []
    FinDiffRelStep: []
    FinDiffType: []
    GoalsExactAchieve: []
    GradConstr: []
    GradObj: []
    HessFcn: []
    Hessian: []
    HessMult: []
    HessPattern: []
    HessUpdate: []
    InitBarrierParam: []
    InitTrustRegionRadius: []
    Jacobian: []
    JacobMult: []
    JacobPattern: []
    LargeScale: []
    MaxNodes: []
    MaxPCGIter: []
    MaxProjCGIter: []
    MaxSQPIter: []
    MaxTime: []
    MeritFunction: []
    MinAbsMax: []
    NoStopIfFlatInfeas: []
    ObjectiveLimit: []
    PhaseOneTotalScaling: []
    Preconditioner: []
    PrecondBandWidth: []
    RelLineSrchBnd: []
    RelLineSrchBndDuration: []
    ScaleProblem: []
    SubproblemAlgorithm: []
    TolCon: []
    TolConSQP: []
    TolGradCon: []
    TolPCG: []
    TolProjCG: []
    TolProjCGAbs: []
    TypicalX: []
    UseParallel: []

pos = 9 ; key = fmin_controls_c
    Display: 'iter'
    MaxFunEvals: 750

```

```

        MaxIter: 500
        TolFun: 1.0000e-05
        TolX: 1.0000e-05
        FunValCheck: []
        OutputFcn: []
        PlotFcns: []
        ActiveConstrTol: []
        Algorithm: []
AlwaysHonorConstraints: []
        DerivativeCheck: []
        Diagnostics: []
        DiffMaxChange: []
        DiffMinChange: []
        FinDiffRelStep: []
        FinDiffType: []
        GoalsExactAchieve: []
        GradConstr: []
        GradObj: []
        HessFcn: []
        Hessian: []
        HessMult: []
        HessPattern: []
        HessUpdate: []
        InitBarrierParam: []
        InitTrustRegionRadius: []
        Jacobian: []
        JacobMult: []
        JacobPattern: []
        LargeScale: []
        MaxNodes: []
        MaxPCGIter: []
        MaxProjCGIter: []
        MaxSQPIter: []
        MaxTime: []
        MeritFunction: []
        MinAbsMax: []
        NoStopIfFlatInfeas: []
        ObjectiveLimit: []
        PhaseOneTotalScaling: []
        Preconditioner: []
        PrecondBandWidth: []
        RelLineSrchBnd: []
        RelLineSrchBndDuration: []
        ScaleProblem: []
        SubproblemAlgorithm: []
        TolCon: []
        TolConSQP: []
        TolGradCon: []
        TolPCG: []
        TolProjCG: []
        TolProjCGAbs: []
        TypicalX: []
        UseParallel: []

pos = 10 ; key = fmin_controls_d
        Display: 'iter'
        MaxFunEvals: 5000
        MaxIter: 15
        TolFun: 1.0000e-06
        TolX: 1.0000e-06
        FunValCheck: []
        OutputFcn: []
        PlotFcns: {@optimplotfval @optimplotx @optimplotstepsize @optimplotfunccount}
        ActiveConstrTol: []

```



	i	idx	string
PES	"1"	"1"	"_i"
srdp_equi_method	"2"	"11"	"SRDP"
srdp_method	"3"	"12"	"NESTFAST"