

```

#ifndef _pf_factory_h_
#define _pf_factory_h_


#include "boost/smart_ptr/shared_ptr.hpp"
#include "gridpack/include/gridpack.hpp"
#include "gridpack/applications/components/pf_matrix/pf_components.hpp"

namespace gridpack {
namespace powerflow {

// Define the type of network used in the powerflow application
typedef network::BaseNetwork<PFBus, PFBranch> PFNetwork;

class PFFactory
    : public gridpack::factory::BaseFactory<PFNetwork> {
public:

    Basic constructor
    @param network: network associated with factory

    PFFactory(NetworkPtr network);

    Basic destructor

    ~PFFactory();

Create the admittance (Y-Bus) matrix.

```

```
void setYBus(void);
```

Make SBus vector

```
void setSBus(void);
```

```
private:
```

```
    NetworkPtr p_network;  
};
```

```
} // powerflow  
} // gridpack
```

```
#endif
```