3 pages 1

```
Help
#if defined(PremiaCurrentVersion) && PremiaCurrentVersion <</pre>
    (2008+2) //The "#else" part of the code will be freely av
   ailable after the (year of creation of this file + 2)
*******/
/*
                           highdim vector.h
*************/
/*
/* type VECTOR
/*
                */
/* Copyright (C) 1992-1995 Tomas Skalicky. All rights res
   erved.
                 */
/*
                */
/************************************
   *******/
/*
                */
       ANY USE OF THIS CODE CONSTITUTES ACCEPTANCE OF TH
   E TERMS
/*
            OF THE COPYRIGHT NOTICE (SEE FILE copyrght.h
   )
               */
/*
                */
/********************
   *******/
#ifndef HIGHDIM VECTOR H
#define HIGHDIM VECTOR H
#include <stdlib.h>
#include "lastypes.h"
#include "elcmp.h"
```

3 pages 2

```
#include "copyrght.h"
typedef struct {
    char *Name;
    size t Dim;
    InstanceType Instance;
    int LockLevel;
    double Multipl;
    Boolean OwnData;
   double *Cmp;
} Vector;
void V_Constr(Vector *V, char *Name, size_t Dim, InstanceT
    ype Instance,
       Boolean OwnData);
void V Destr(Vector *V);
void V SetName(Vector *V, char *Name);
char *V GetName(Vector *V);
size_t V_GetDim(Vector *V);
void V SetCmp(Vector *V, size t Ind, double Val);
void V_SetAllCmp(Vector *V, double Val);
void V_SetRndCmp(Vector *V);
double V_GetCmp(Vector *V, size_t Ind);
void V AddCmp(Vector *V, size t Ind, double Val);
/* macros for fast access */
#define V SetCmp(PtrV, Ind, Val)
                                      (PtrV)->Cmp[Ind
   ] = (Val)
#define V GetCmp(PtrV, Ind)
                                      (PtrV)->Cmp[Ind
#define V__AddCmp(PtrV, Ind, Val)
                                          (PtrV)->Cmp[Ind
   ] += (Val)
void V_Lock(Vector *V);
void V Unlock(Vector *V);
#endif /* HIGHDIM_VECTOR_H */
#endif //PremiaCurrentVersion
```

3 pages

References