CddInterface

Gap interface to Cdd package

0.1

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Chapter 1

Functions and Methods

1.1 Creating a polyhedra

1.1.1 Cdd_PolyhedraByInequalities

▷ `Cdd_PolyhedraByInequalities(arg)` (function)

Returns: a CddPolyhedra Object

The function takes a list in which every entry represents an inequality(or equality). In case we want some entries to represent equalities we should refer to their indices in a second list.

Example

```
gap>  A:= Cdd_PolyhedraByInequalities( [ [ 0, 1, 3 ], [ 0, 4, 8 ] ] );
< Polyhedra given by its H-representation >
gap>  Display( A ) ;
H-representation
Begin
  2 X 3  rational

  0  1  3
  0  4  8
End
gap>  B:= Cdd_PolyhedraByInequalities( [ [ 0, 1, 3 ], [ 0, 4, 8 ] ], [2] );
< Polyhedra given by its H-representation >
gap>  Display( B ) ;
H-representation
Linearity 1, [ 2 ]
Begin
  2 X 3  rational

  0  1  3
  0  4  8
End
```

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