

# Results Graphs

smc

April 10, 2008

## Contents

### 1 The srmc model

```
// Modelling a european wide virtual university service.

////////////////////////////////////
// The servers

UEDIN::{
    lambda = 1.65 ;
    mu      = 0.0275 ;
    gamma   = 0.125 ;
    delta   = 3.215 ;
    avail   = { 0.6, 0.7, 0.8, 0.9, 1.0 } ;

    UPLOAD::{
        Idle   = (upload, avail * lambda) . Idle
                + (fail, mu) . Broken
                ;
        Broken = (repair, gamma) . Idle ;
    } ;

    DOWNLOAD::{
        Idle   = (download, avail * delta) . Idle
                + (fail, mu) . Broken
                ;
        Broken = (repair, gamma) . Idle ;
    } ;
} ;

// LMU doesn't model server down time
LMU::{
    lambda = 0.965 ;
    delta  = 2.576 ;
    avail  = { 0.5, 0.6, 0.7, 0.8, 0.9 } ;

    UPLOAD::{
```

```

        Idle = (upload, avail * lambda) . Idle ;
    } ;
    DOWNLOAD::{
        Idle = (download, avail * delta) . Idle ;
    } ;
} ;

UNIBO::{
    lambda = 1.65 ;
    mu = 0.0275 ;
    gamma = 0.125 ;
    delta = 3.215 ;
    slambda = 1.25 ;
    sdelta = 2.255 ;
    avail = { 0.8, 0.9, 1.0 } ;

    UPLOAD::{
        Idle = (upload, avail * lambda) . Idle
            + (supload, avail * slambda) . Idle // Should be conditional
            + (fail, mu) . Broken
        ;
        Broken = (repair, gamma) . Idle ;
    } ;
    DOWNLOAD::{
        Idle = (download, avail * delta) . Idle
            + (sdownload, avail * sdelta) . Idle // Should be conditional
            + (fail, mu) . Broken
        ;
        Broken = (repair, gamma) . Idle ;
    } ;
} ;

UNIFI::{
    lambda = 1.65 ;
    mu = 0.0275 ;
    gamma = 0.125 ;
    delta = 3.215 ;
    slambda = 1.25 ;
    sdelta = 2.255 ;
    avail = { 0.8, 0.9, 1.0 } ;

    UPLOAD::{
        Idle = (upload, avail * lambda) . Idle
            + (supload, avail * slambda) . Idle // Should be conditional
            + (fail, mu) . Broken
        ;
        Broken = (repair, gamma) . Idle ;
    } ;
    DOWNLOAD::{

```

```

        Idle    = (download, avail * delta) . Idle
                + (sdownload, avail * sdelta) . Idle // Should be conditional
                + (fail, mu) . Broken
                ;
        Broken = (repair, gamma) . Idle ;
    } ;
} ;

////////////////////////////////////
// The clients
HARRY::{
    upload_rate    = 1.0 ;
    disconnect_rate = 1.0 ;

    Idle          = (start, upload_rate) . Download ;
    Download      = (download, infty) .
                    (download, infty) .
                    (download, infty) . Upload
                ;
    Upload        = (upload, infty) .
                    (upload, infty) . Disconnect
                ;
    Disconnect    = (finish, disconnect_rate) . Idle ;
} ;

SALLY::{
    upload_rate    = 1.0 ;
    disconnect_rate = 1.0 ;

    Idle          = (start, upload_rate) . Download ;
    Download      = (download, infty) .
                    (download, infty) .
                    (download, infty) . Upload
                ;
    Upload        = (upload, infty) .
                    (upload, infty) . Disconnect
                    + (supload, infty) .
                    (supload, infty) . Disconnect
                ;
    Disconnect    = (finish, disconnect_rate) . Idle ;
} ;

Client = { HARRY::Idle, SALLY::Idle } ;

Upload = { UEDIN::UPLOAD::Idle
          , LMU::UPLOAD::Idle
          , UNIBO::UPLOAD::Idle
          } ;
Download = { UEDIN::DOWNLOAD::Idle
            , LMU::DOWNLOAD::Idle
            } ;

```

```

        , UNIBO::DOWNLOAD::Idle
    } ;

// Servers = Upload <> Download ;

// Main system equation
Upload <> Download
<download, upload, supload, sdownload>
Client

```

## 2 Sensitivity Graphs

A sensitivity graph depicts how varying a single rate alters the probabilities of completion of the passage in which we are interested. Each sensitivity graph belongs to a group, each group represents one selection of the process instances. A group of sensitivity graphs therefore relate to one PEPA model but the PEPA model in question will have different rates for some of the graphs in that group.

### 2.1 Sensitivity Graph Group

All the sensitivity graphs in this sub-section relate to the following choices of process instantiations:

```

Main__Client = Main__HARRY__Idle
Main__Upload = Main__UEDIN__UPLOAD__Idle
Main__Download = Main__UEDIN__DOWNLOAD__Idle

```

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail.

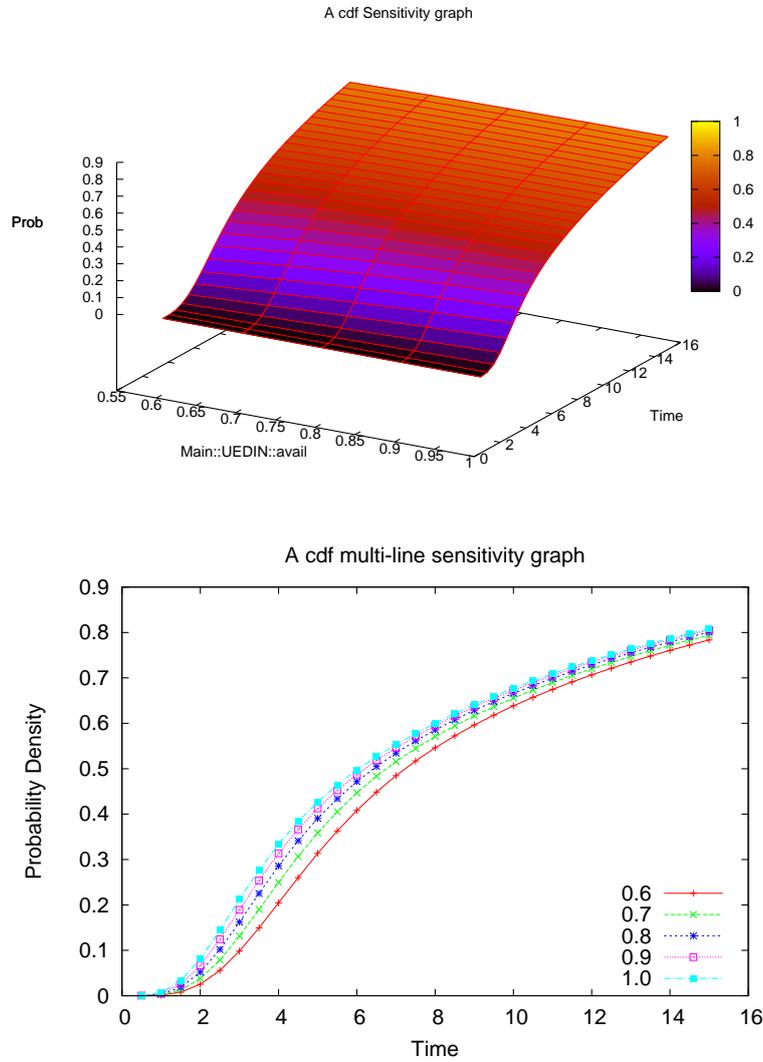


Figure 1: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-0-0-cdf.pdf and Main::UEDIN::avail-0-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail.

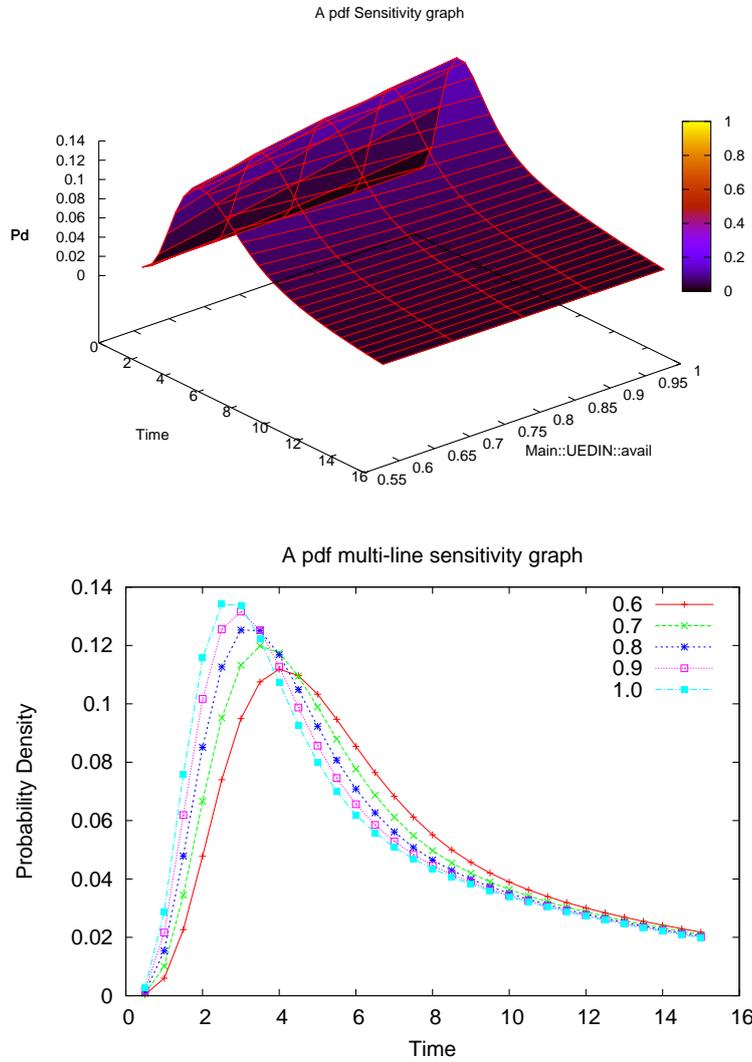


Figure 2: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-0-0-pdf.pdf and Main::UEDIN::avail-0-0-pdf-multi.pdf

## 2.2 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__HARRY__Idle  
Main__Upload = Main__UEDIN__UPLOAD__Idle  
Main__Download = Main__LMU__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

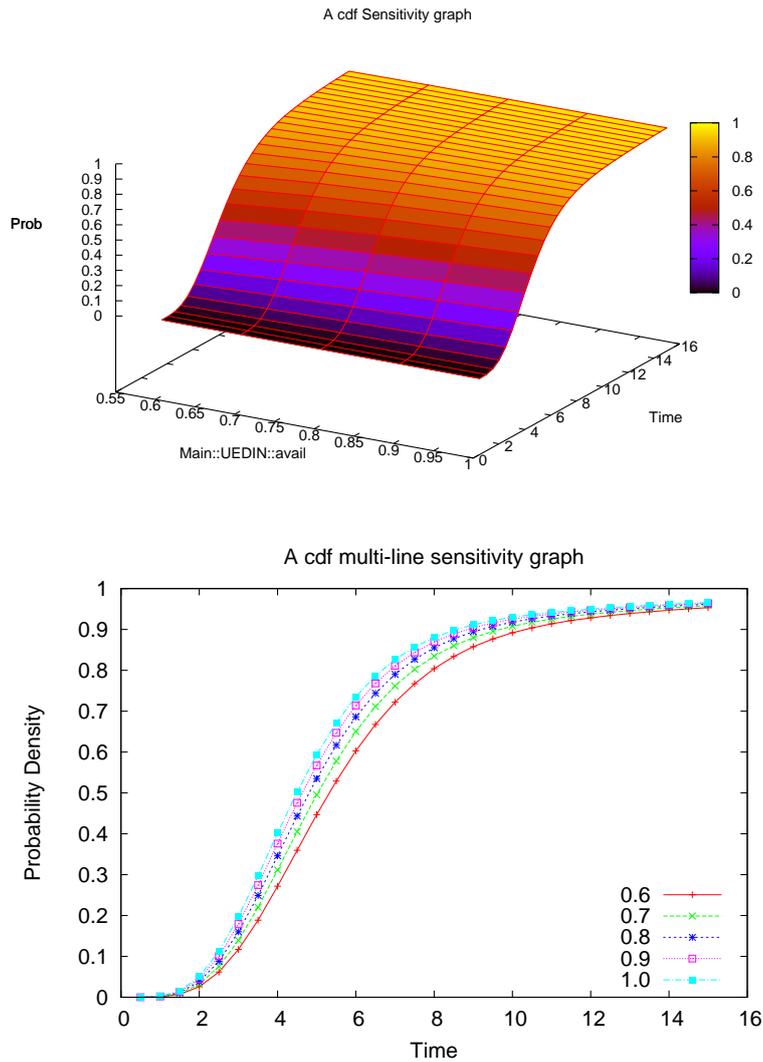


Figure 3: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-0-cdf.pdf and Main::UEDIN::avail-1-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

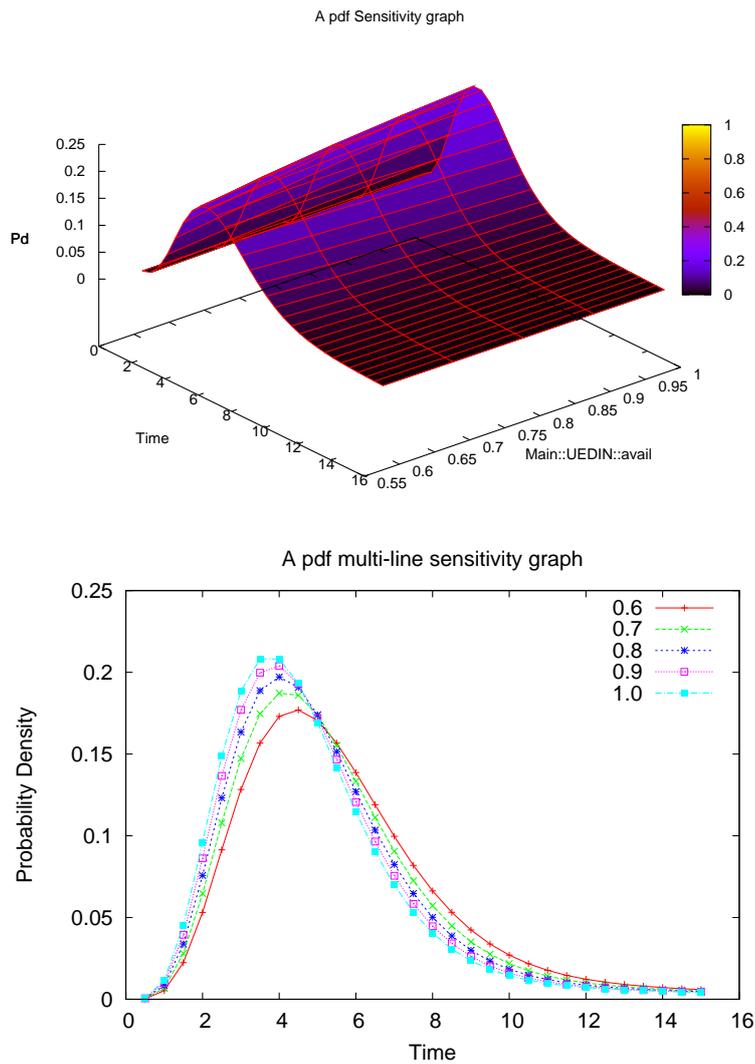


Figure 4: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-0-pdf.pdf and Main::UEDIN::avail-1-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

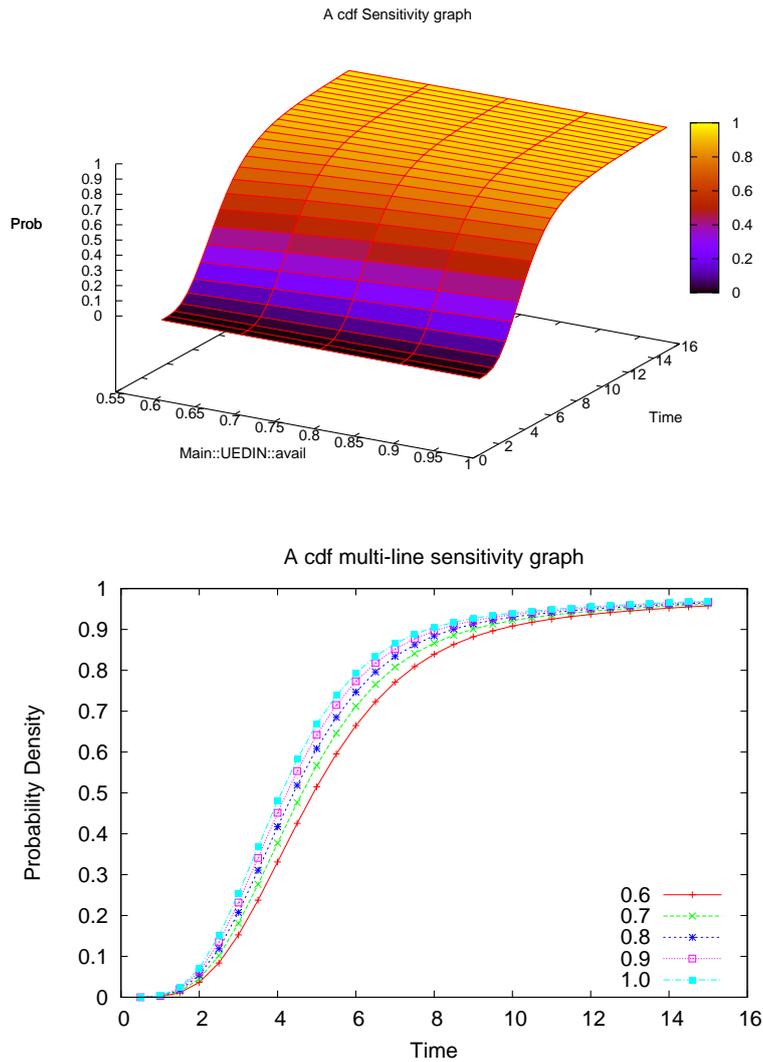


Figure 5: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-1-cdf.pdf and Main::UEDIN::avail-1-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

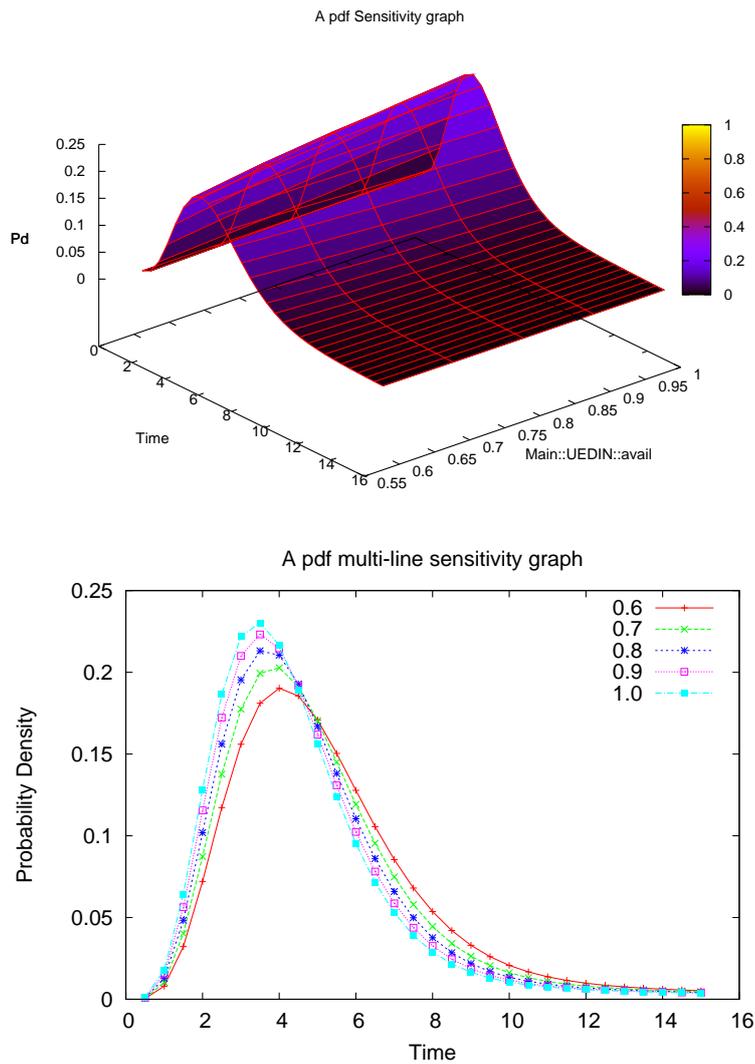


Figure 6: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-1-pdf.pdf and Main::UEDIN::avail-1-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

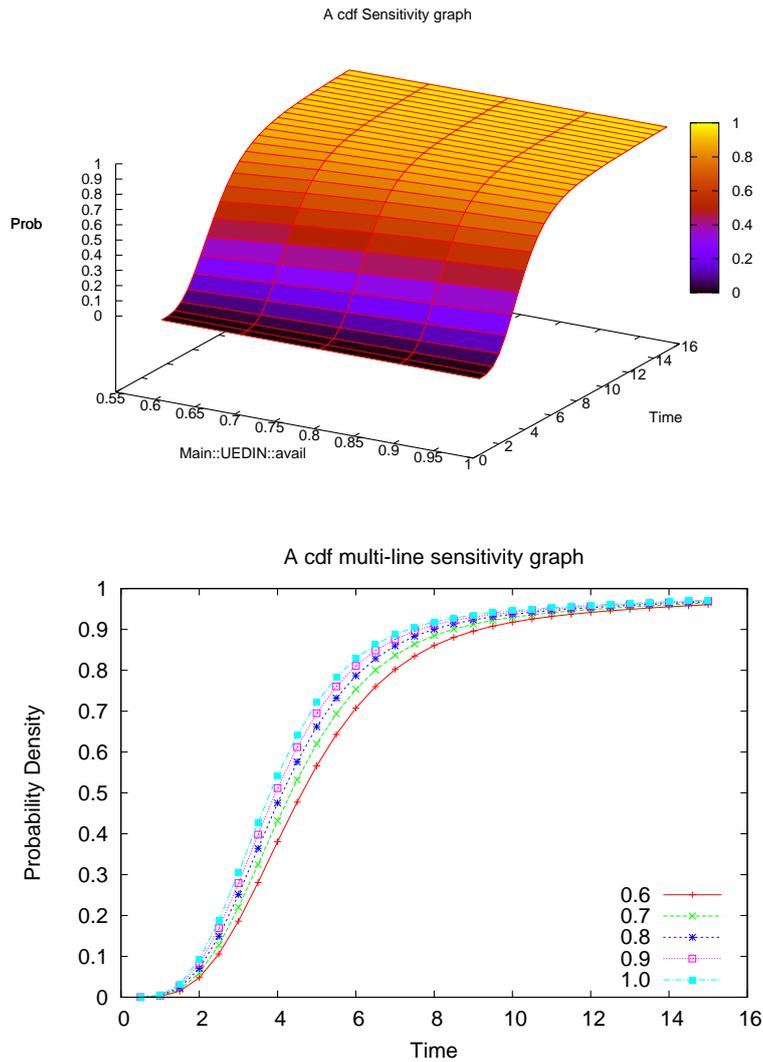


Figure 7: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-2-cdf.pdf and Main::UEDIN::avail-1-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

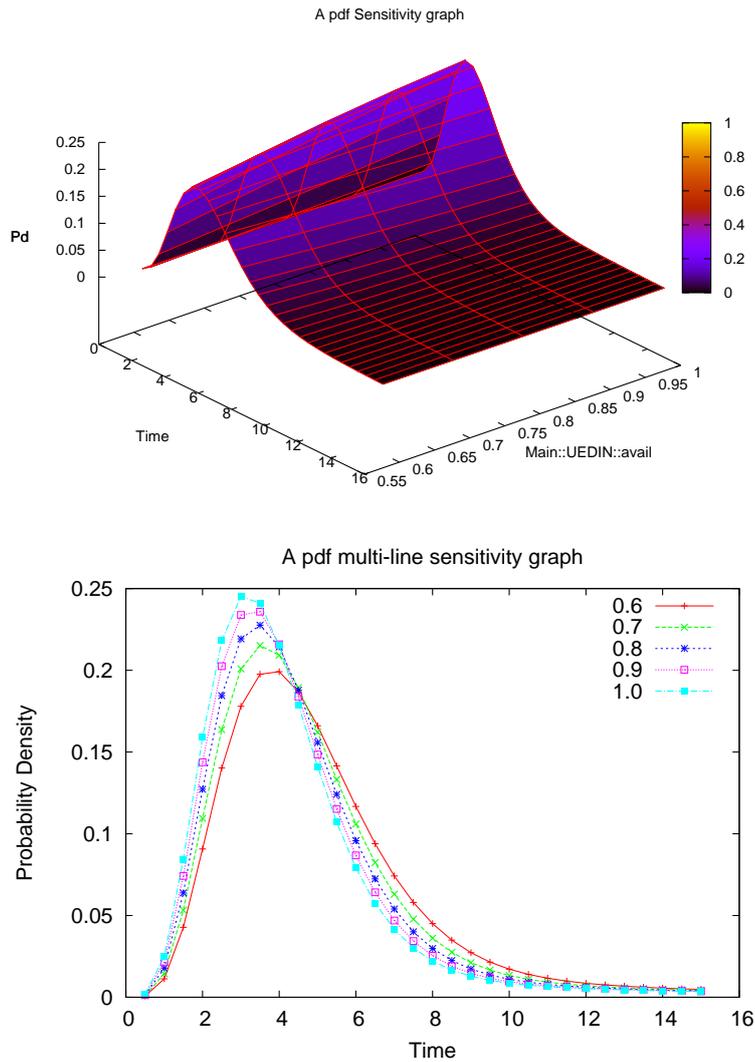


Figure 8: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-2-pdf.pdf and Main::UEDIN::avail-1-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

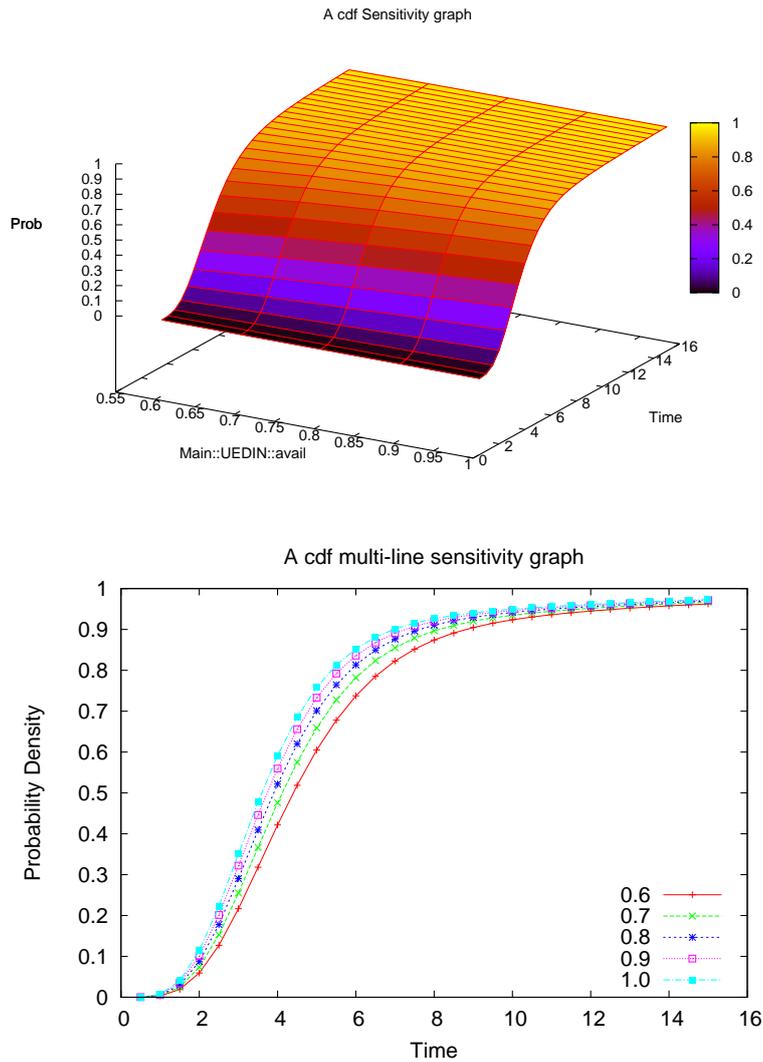


Figure 9: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-3-cdf.pdf and Main::UEDIN::avail-1-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

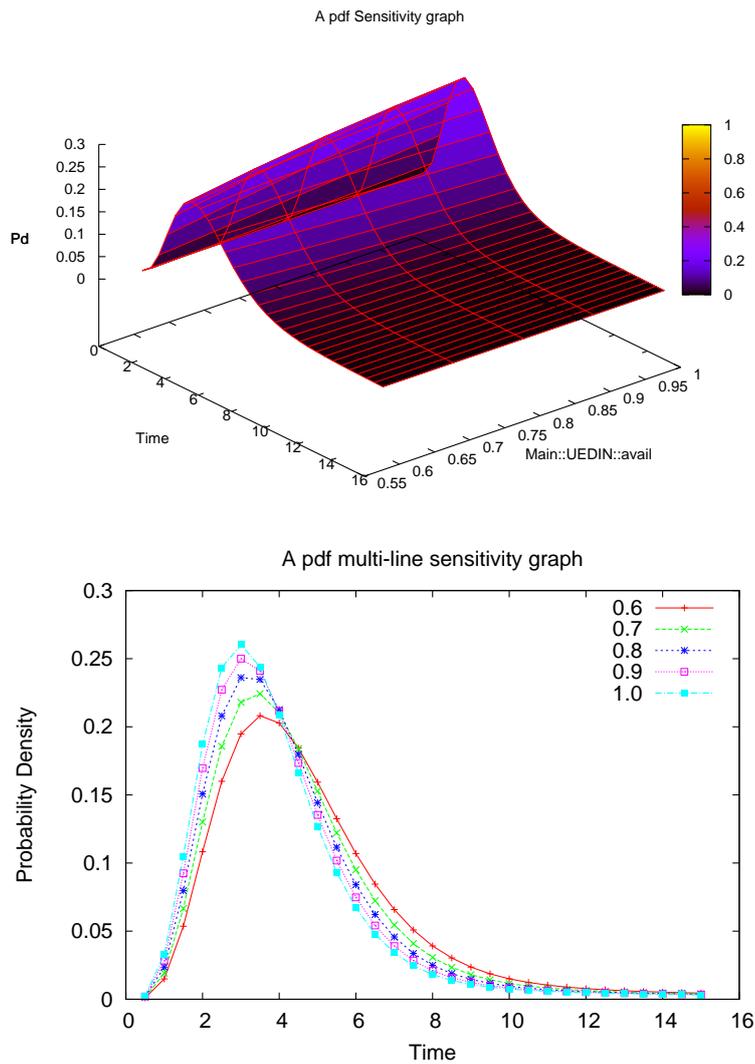


Figure 10: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-3-pdf.pdf and Main::UEDIN::avail-1-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

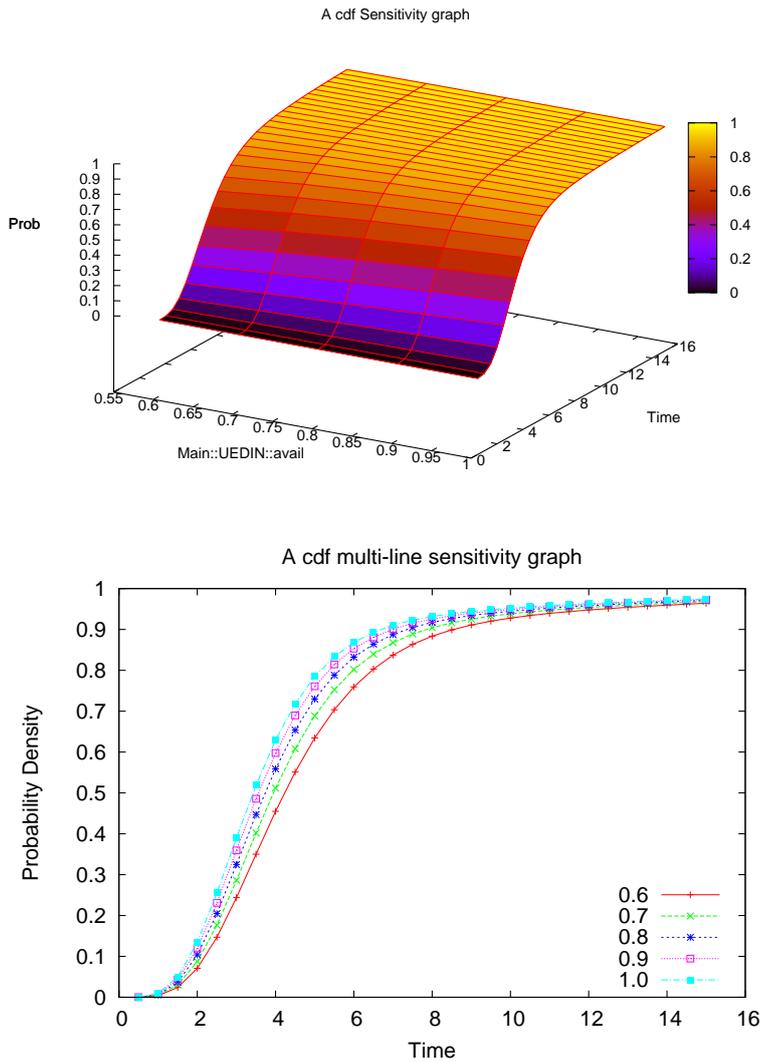


Figure 11: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-4-cdf.pdf and Main::UEDIN::avail-1-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

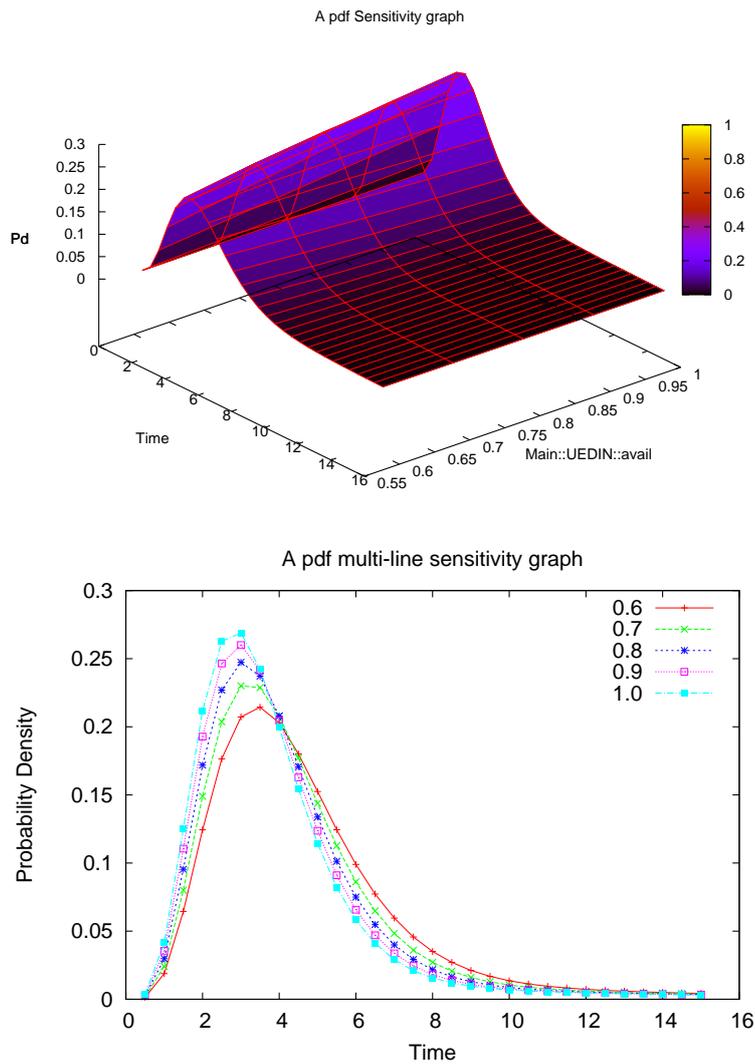


Figure 12: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-1-4-pdf.pdf and Main::UEDIN::avail-1-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

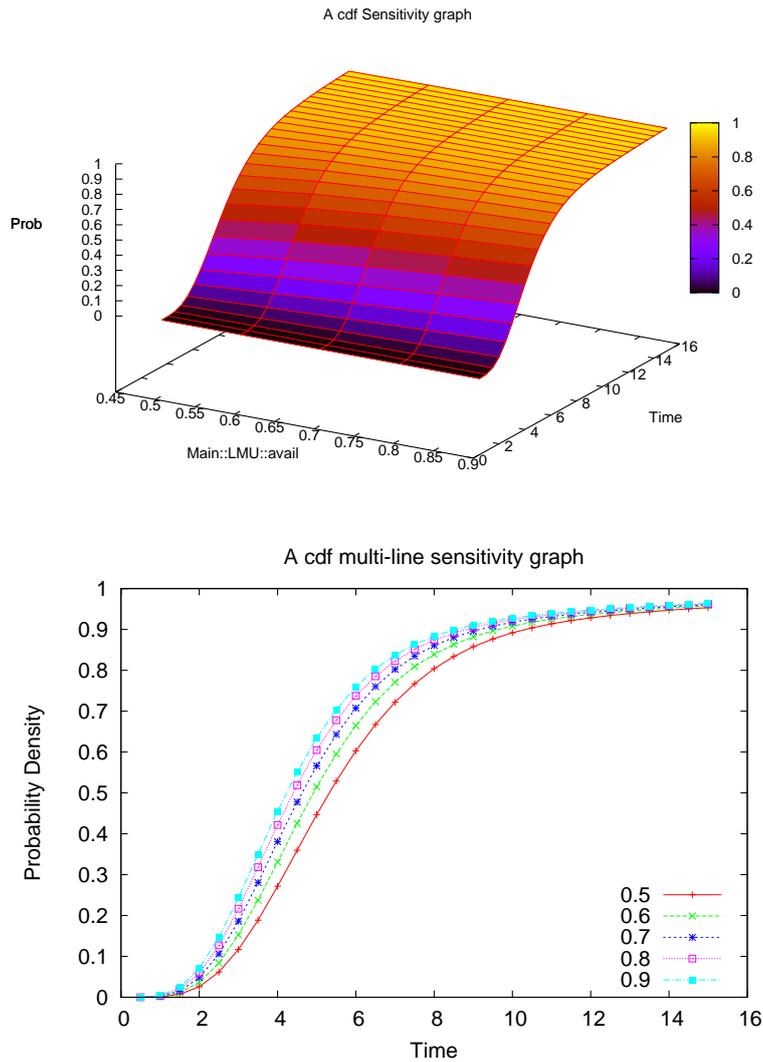


Figure 13: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-1-5-cdf.pdf and Main::LMU::avail-1-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::LMU::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UEDIN::avail = 0.6`

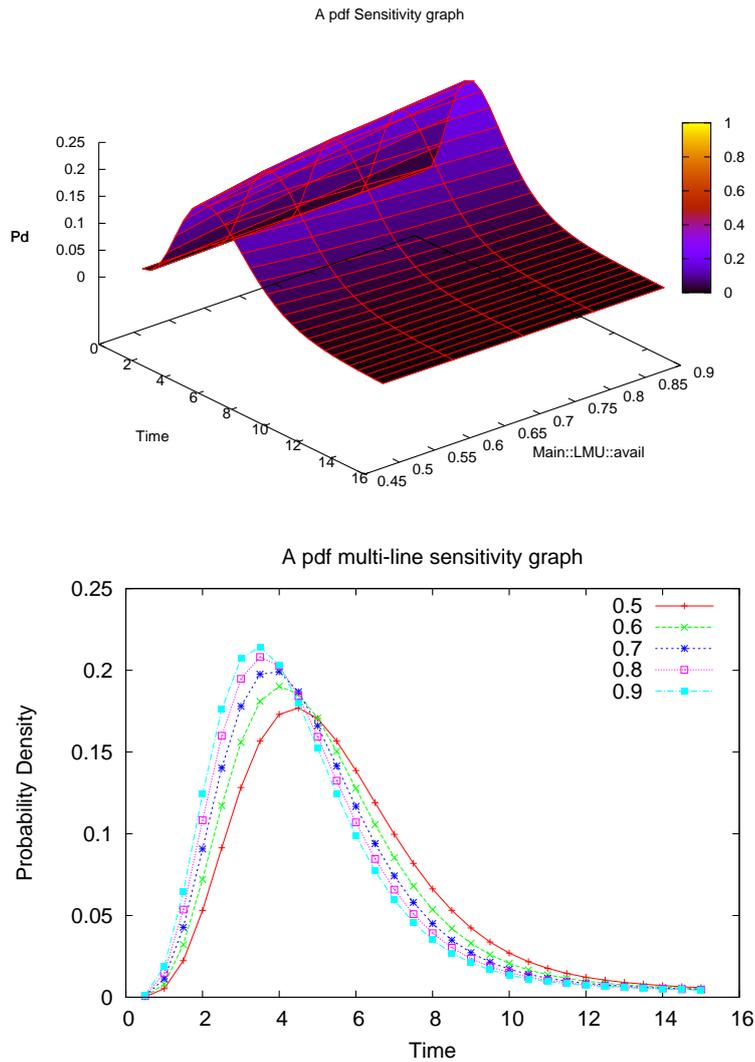


Figure 14: Sensitivity graphs of pdfs for the rate: `Main::LMU::avail`

The file names are: `Main::LMU::avail-1-5-pdf.pdf` and `Main::LMU::avail-1-5-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

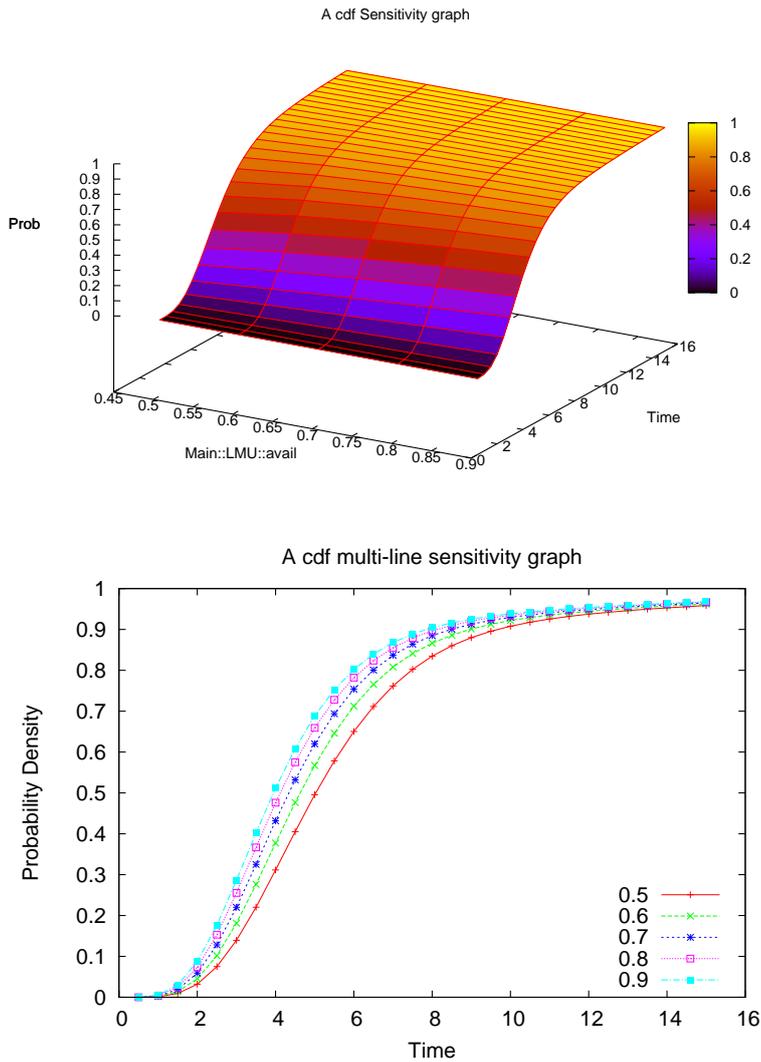


Figure 15: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-1-6-cdf.pdf and Main::LMU::avail-1-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::LMU::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UEDIN::avail = 0.7`

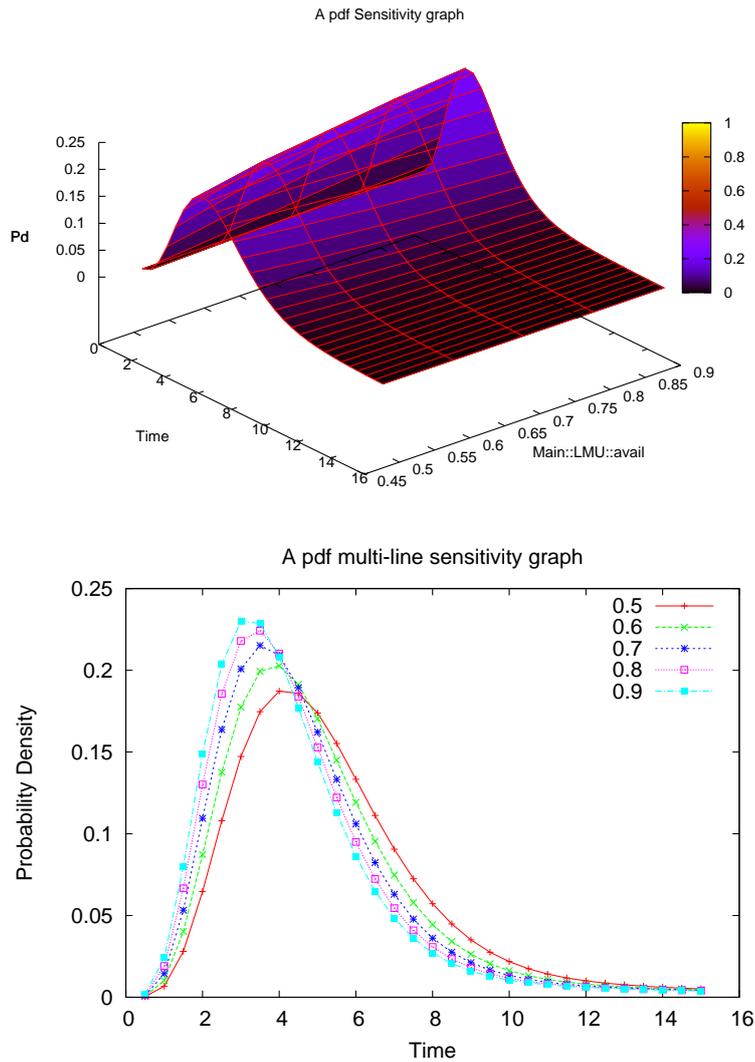


Figure 16: Sensitivity graphs of pdfs for the rate: `Main::LMU::avail`

The file names are: `Main::LMU::avail-1-6-pdf.pdf` and `Main::LMU::avail-1-6-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

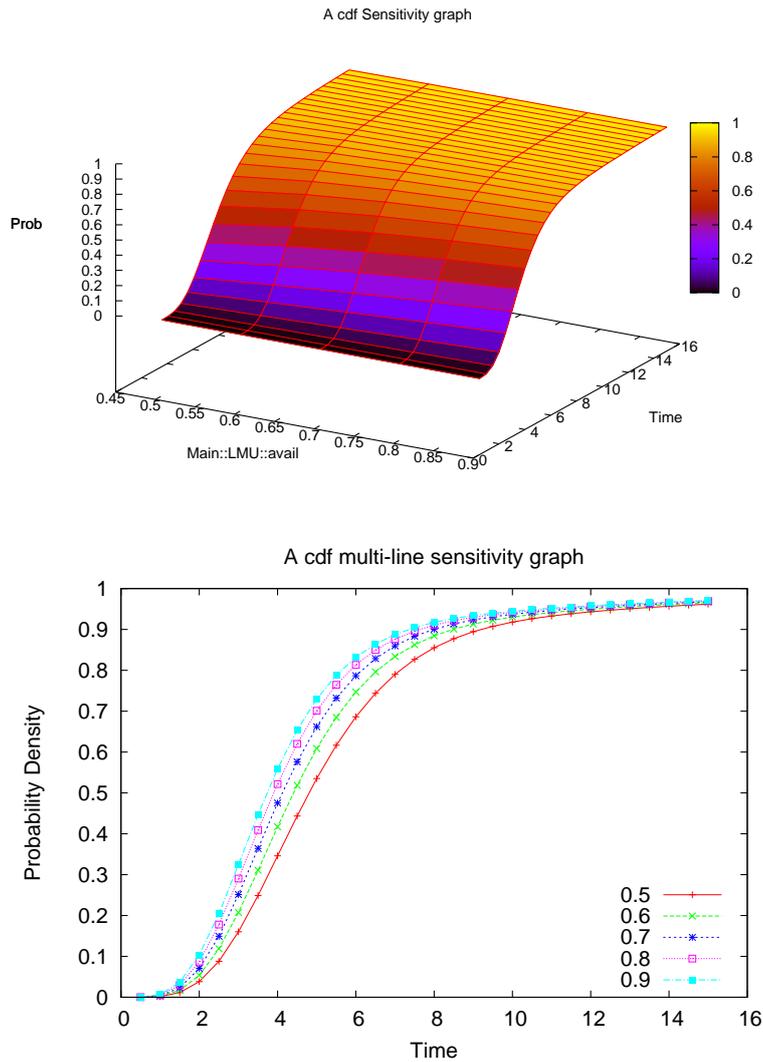


Figure 17: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-1-7-cdf.pdf and Main::LMU::avail-1-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

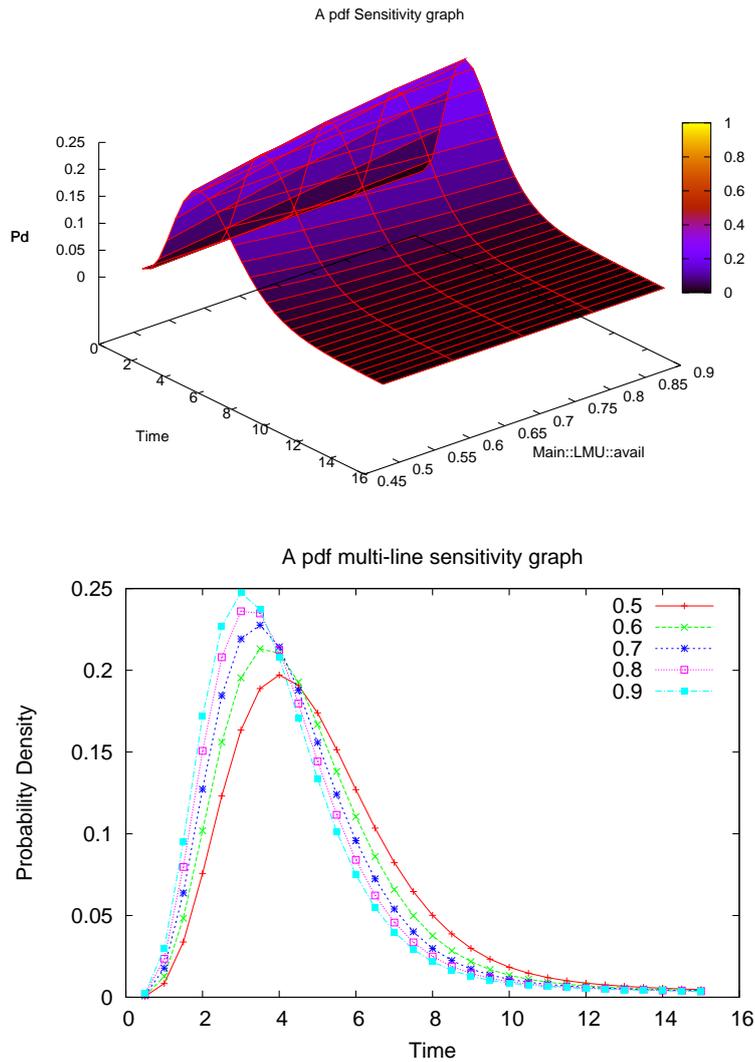


Figure 18: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-1-7-pdf.pdf and Main::LMU::avail-1-7-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

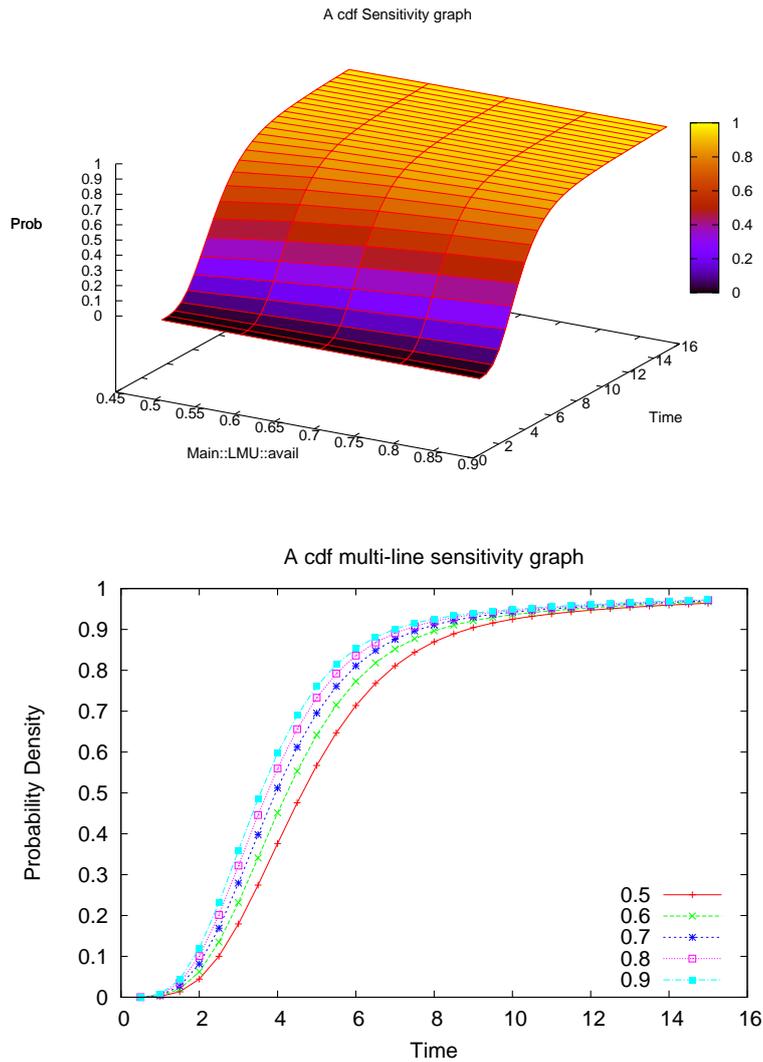


Figure 19: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-1-8-cdf.pdf and Main::LMU::avail-1-8-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::LMU::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UEDIN::avail = 0.9`

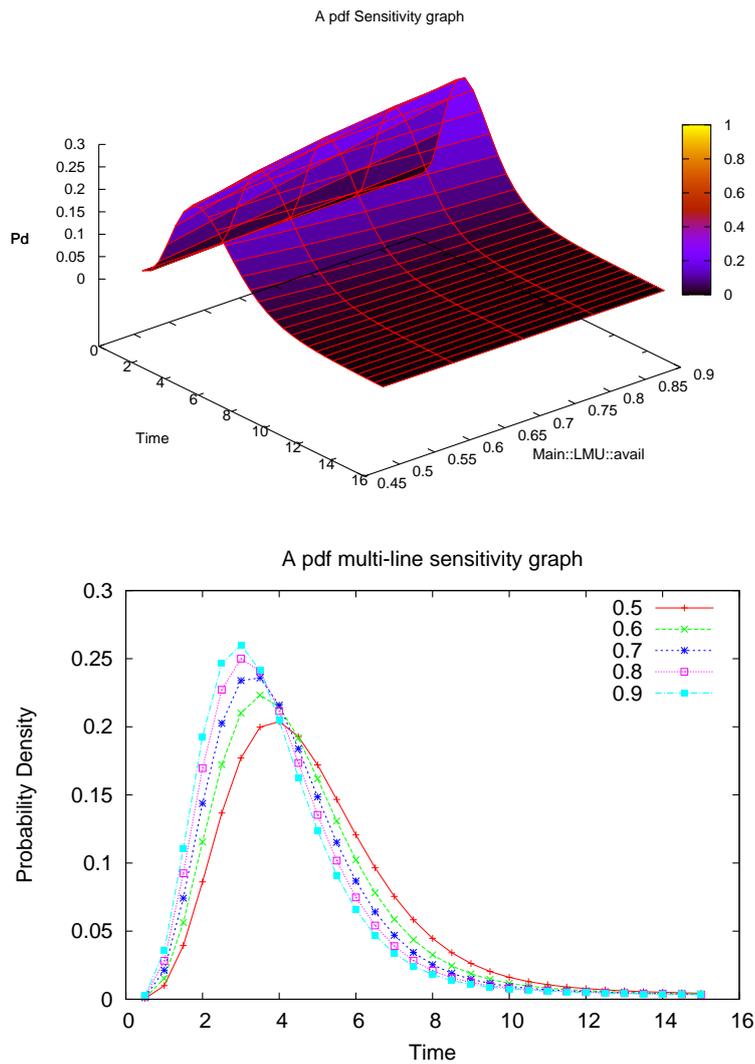


Figure 20: Sensitivity graphs of pdfs for the rate: `Main::LMU::avail`

The file names are: `Main::LMU::avail-1-8-pdf.pdf` and `Main::LMU::avail-1-8-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UEDIN::avail = 1.0

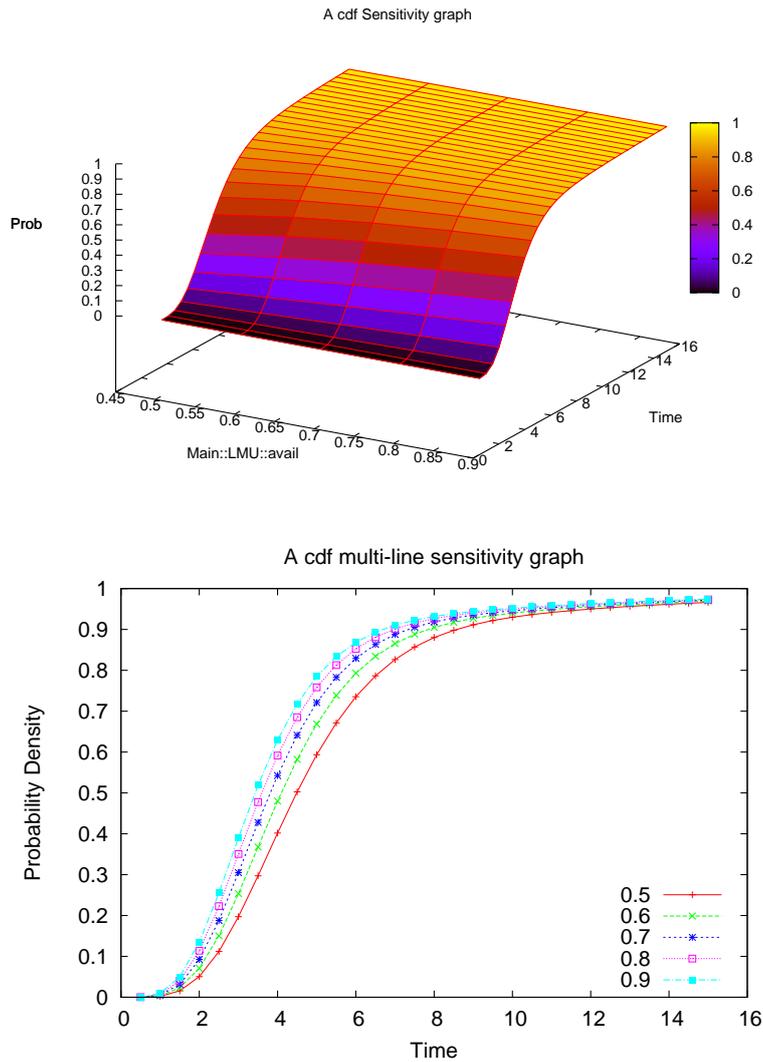


Figure 21: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-1-9-cdf.pdf and Main::LMU::avail-1-9-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::LMU::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UEDIN::avail = 1.0`

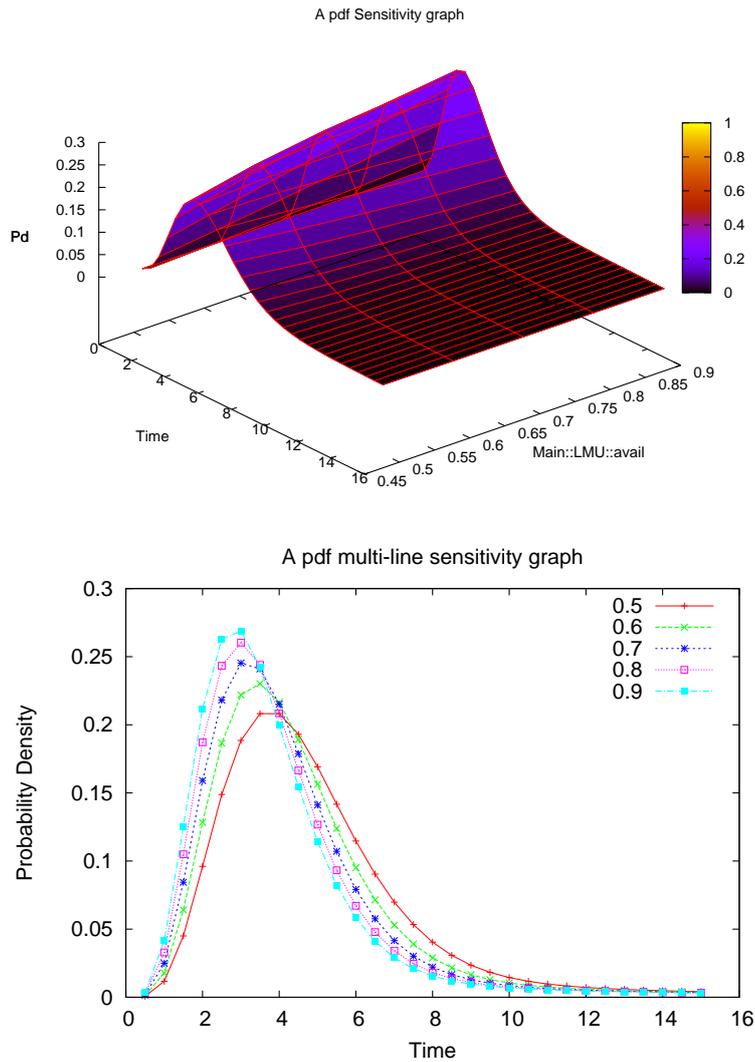


Figure 22: Sensitivity graphs of pdfs for the rate: `Main::LMU::avail`

The file names are: `Main::LMU::avail-1-9-pdf.pdf` and `Main::LMU::avail-1-9-pdf-multi.pdf`

### 2.3 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__HARRY__Idle
```

```
Main__Upload = Main__UEDIN__UPLOAD__Idle
```

```
Main__Download = Main__UNIBO__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

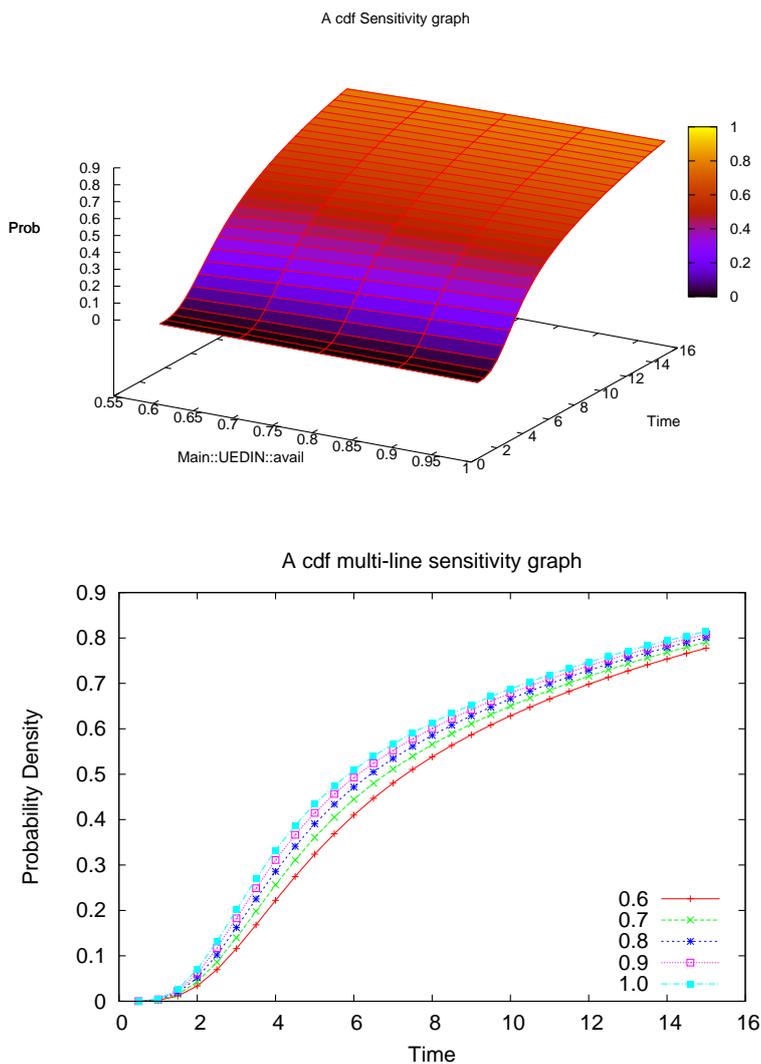


Figure 23: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-2-0-cdf.pdf and Main::UEDIN::avail-2-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

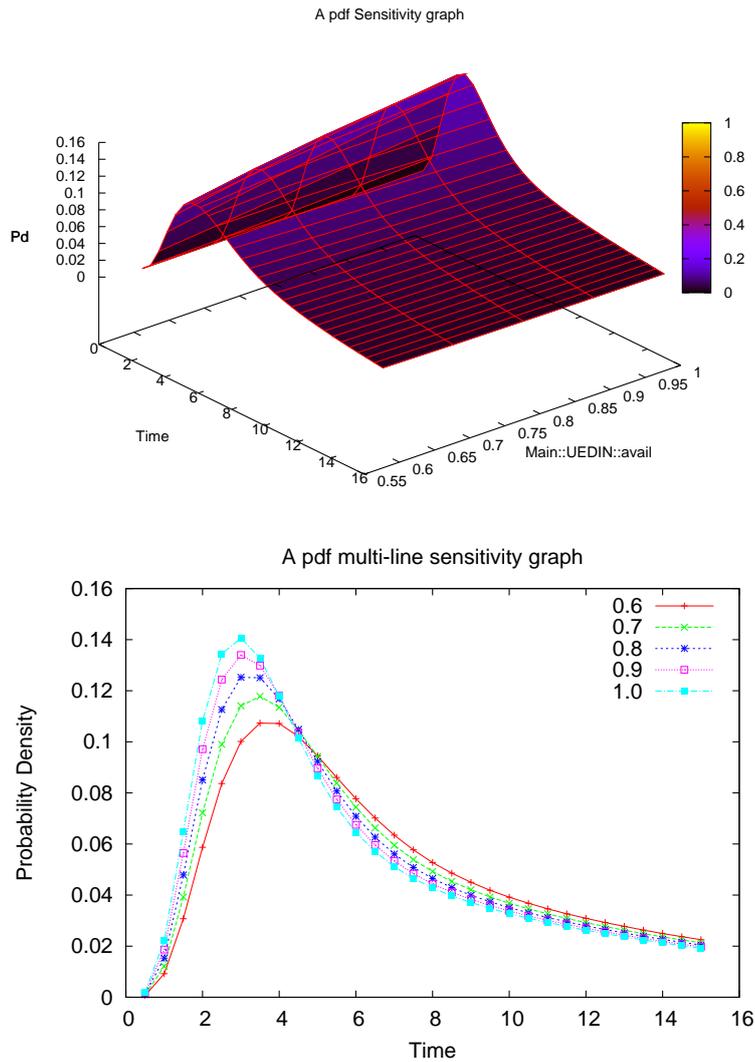


Figure 24: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-2-0-pdf.pdf and Main::UEDIN::avail-2-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

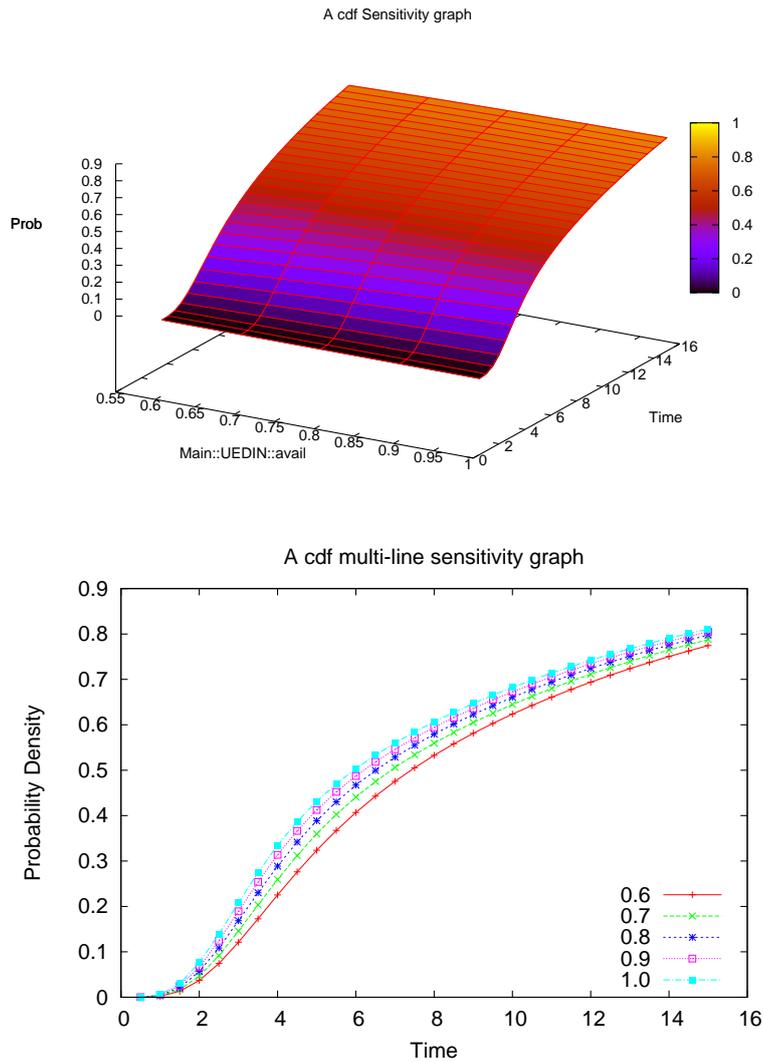


Figure 25: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-2-1-cdf.pdf and Main::UEDIN::avail-2-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::UEDIN::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UNIBO::avail = 0.9`

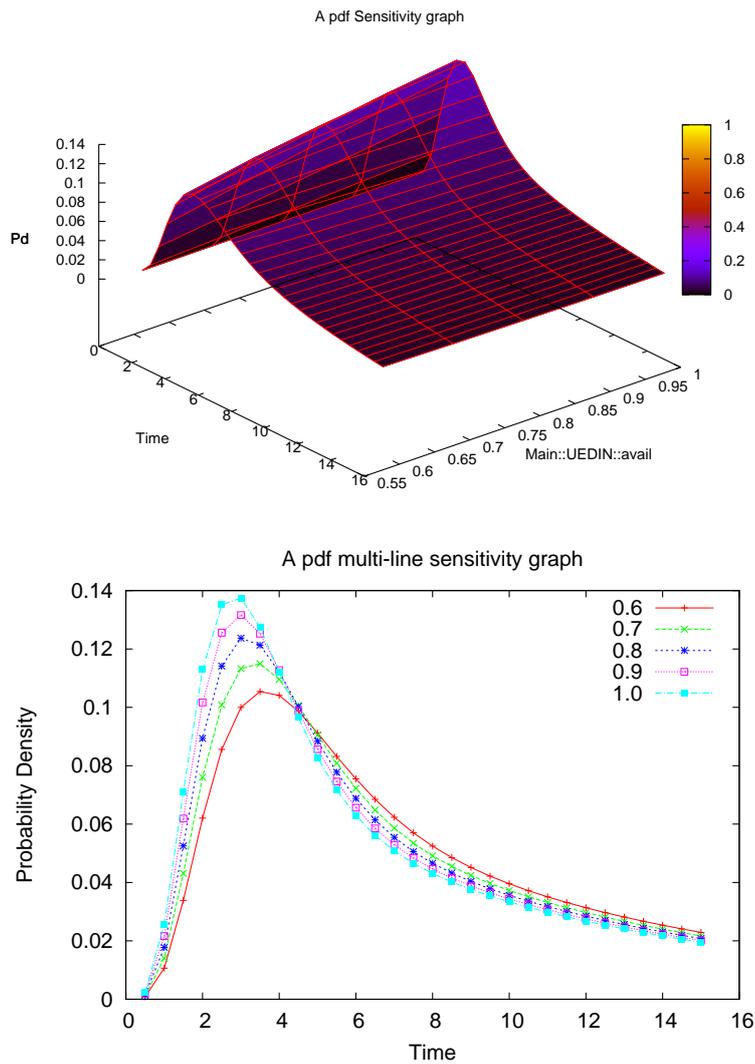


Figure 26: Sensitivity graphs of pdfs for the rate: `Main::UEDIN::avail`

The file names are: `Main::UEDIN::avail-2-1-pdf.pdf` and `Main::UEDIN::avail-2-1-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

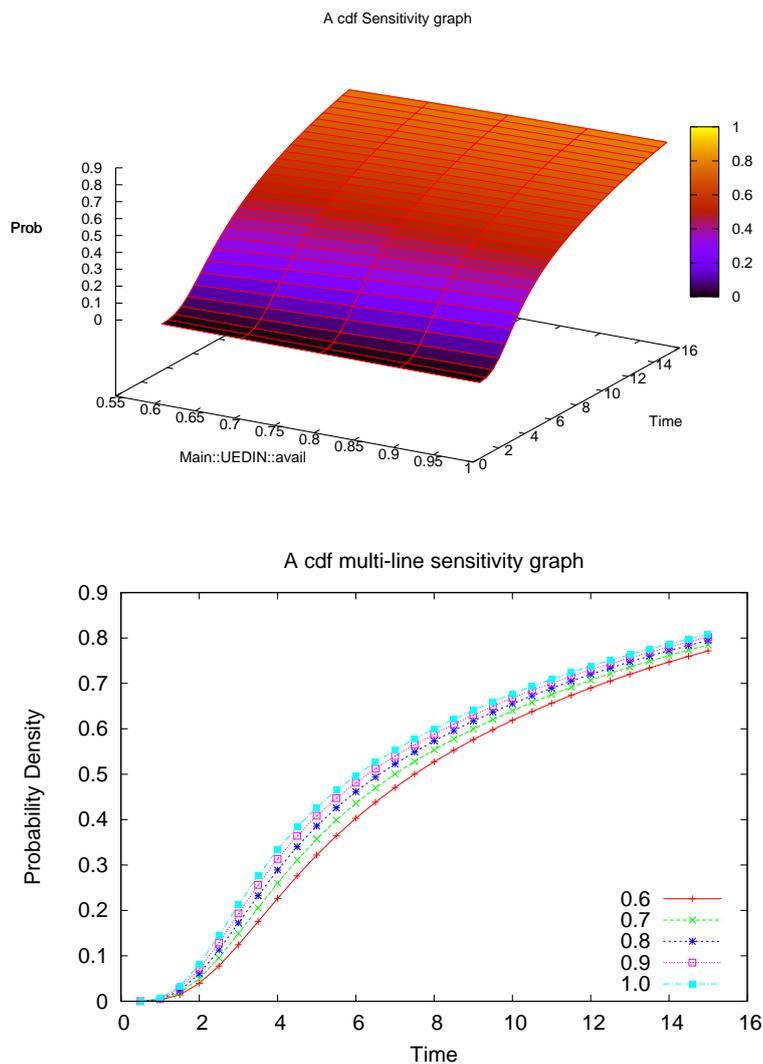


Figure 27: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-2-2-cdf.pdf and Main::UEDIN::avail-2-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::UEDIN::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UNIBO::avail = 1.0`

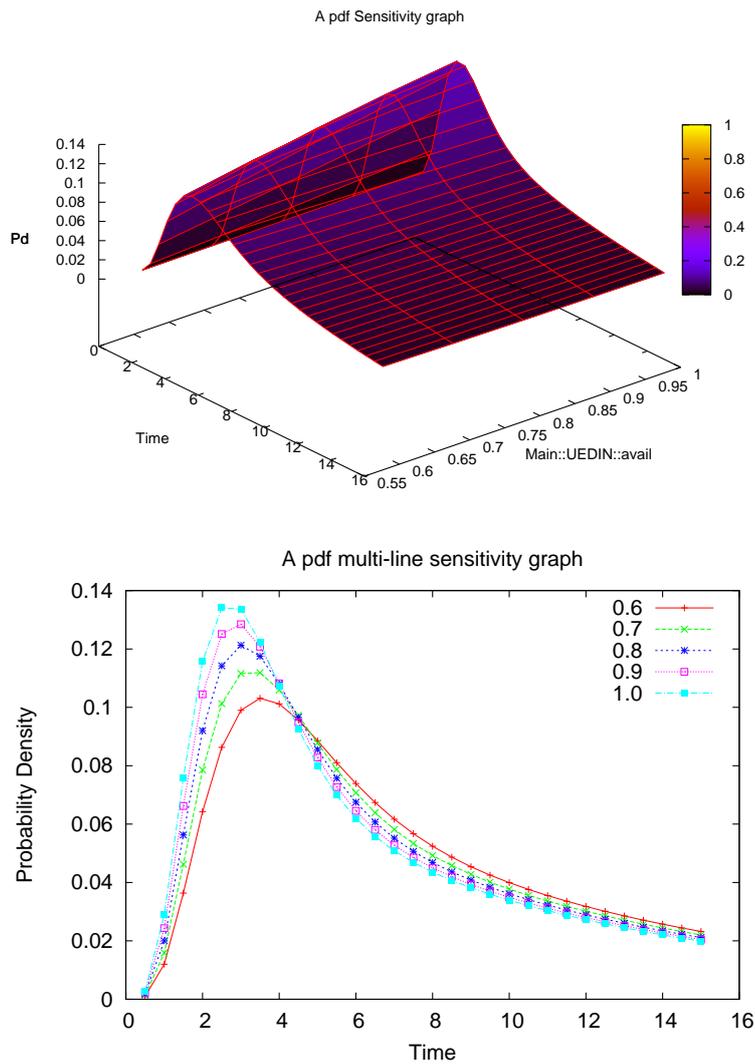


Figure 28: Sensitivity graphs of pdfs for the rate: `Main::UEDIN::avail`

The file names are: `Main::UEDIN::avail-2-2-pdf.pdf` and `Main::UEDIN::avail-2-2-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

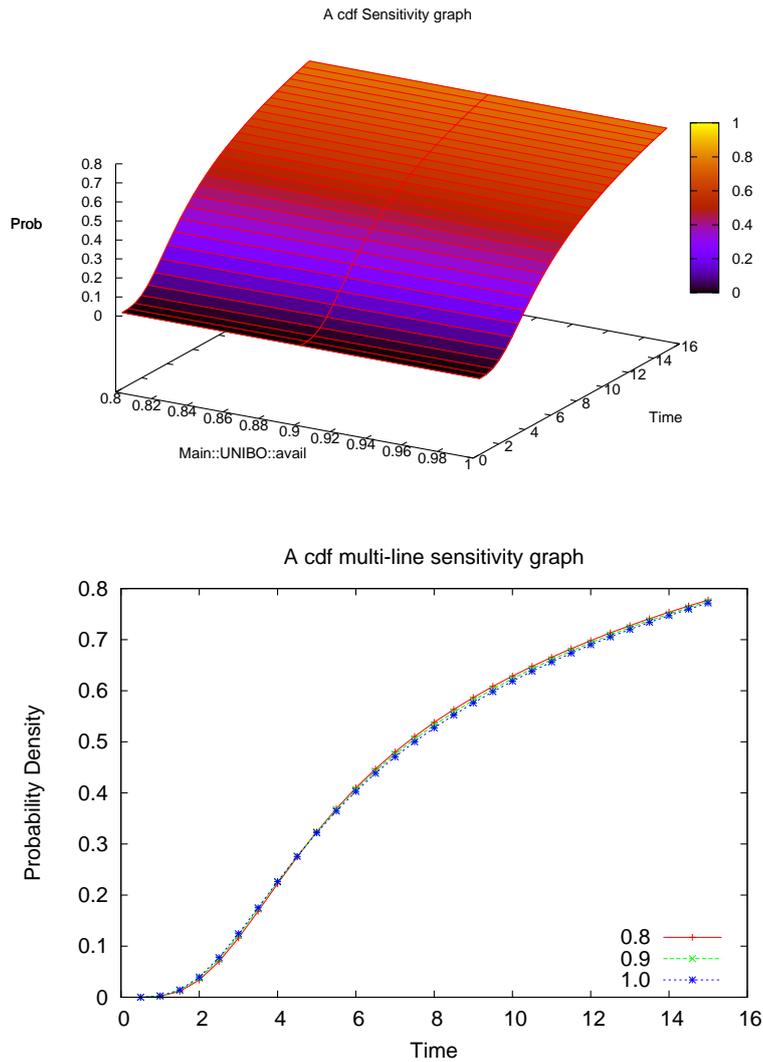


Figure 29: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-3-cdf.pdf and Main::UNIBO::avail-2-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

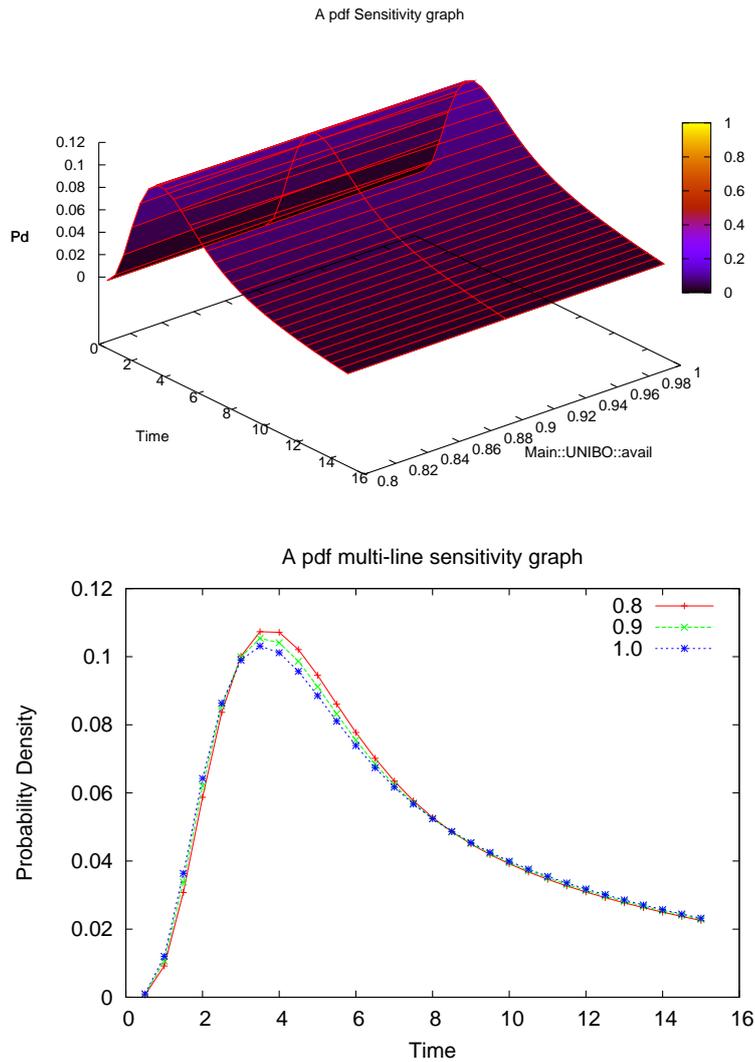


Figure 30: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-3-pdf.pdf and Main::UNIBO::avail-2-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

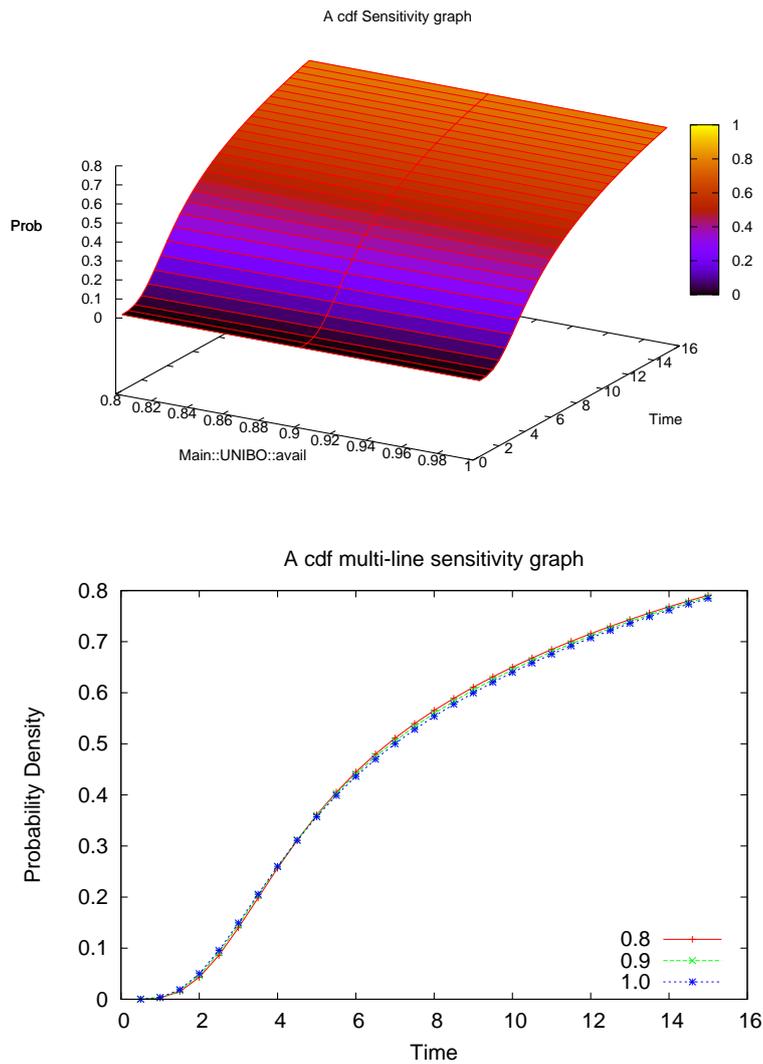


Figure 31: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-4-cdf.pdf and Main::UNIBO::avail-2-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

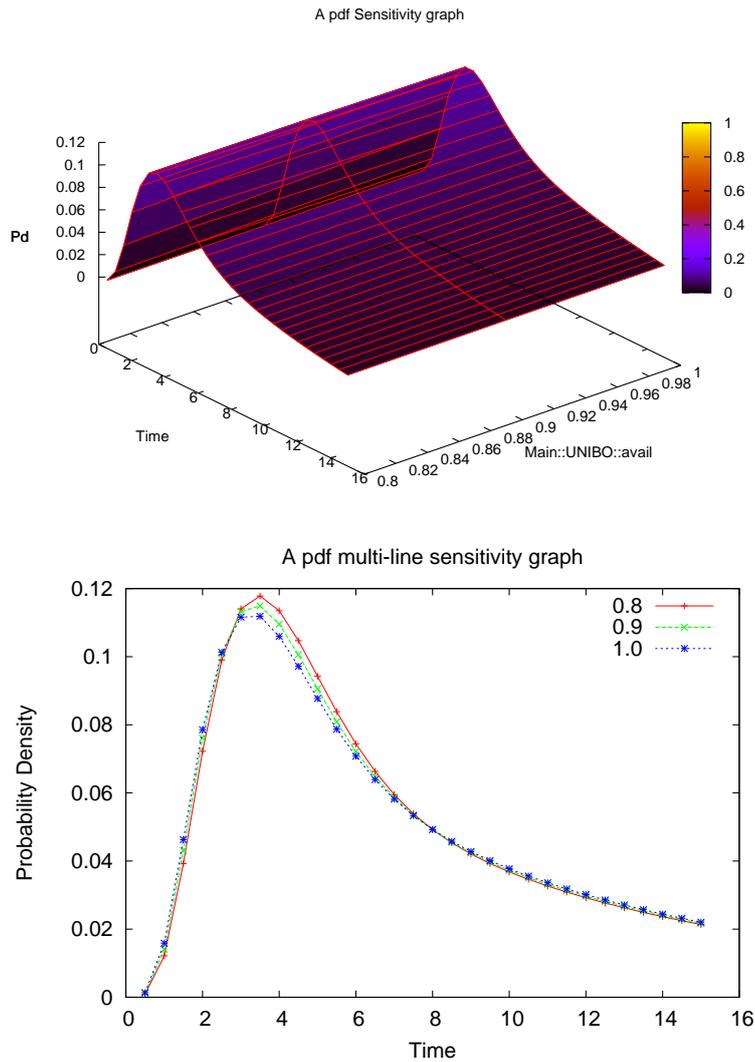


Figure 32: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-4-pdf.pdf and Main::UNIBO::avail-2-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

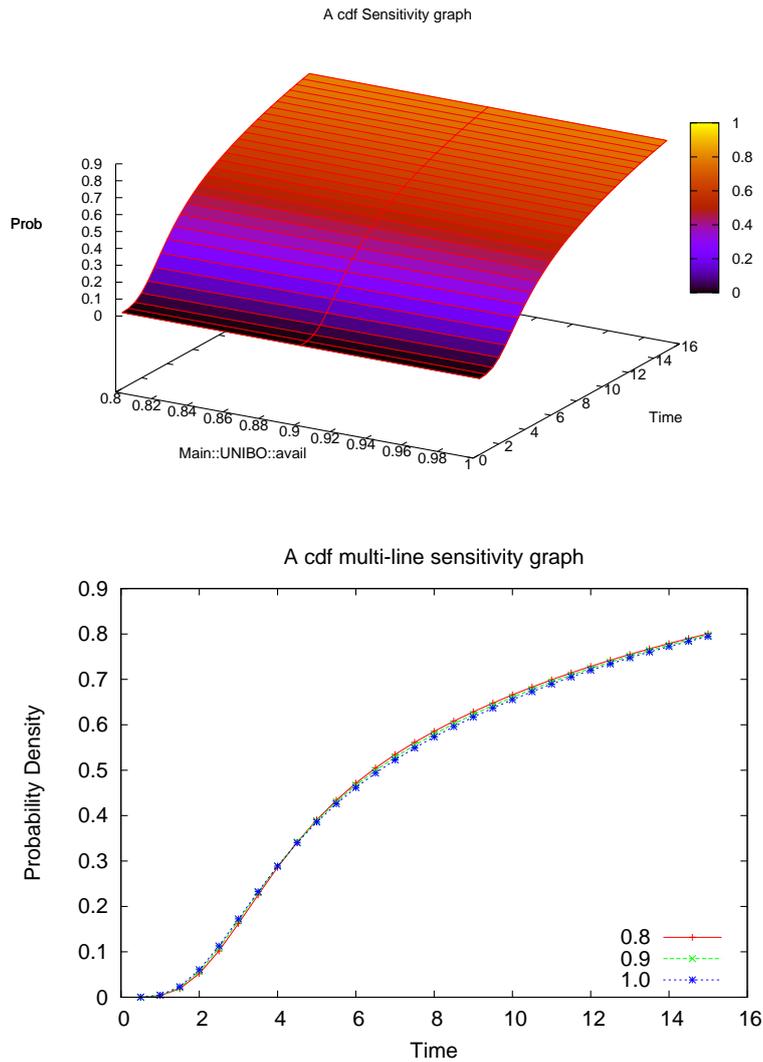


Figure 33: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-5-cdf.pdf and Main::UNIBO::avail-2-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

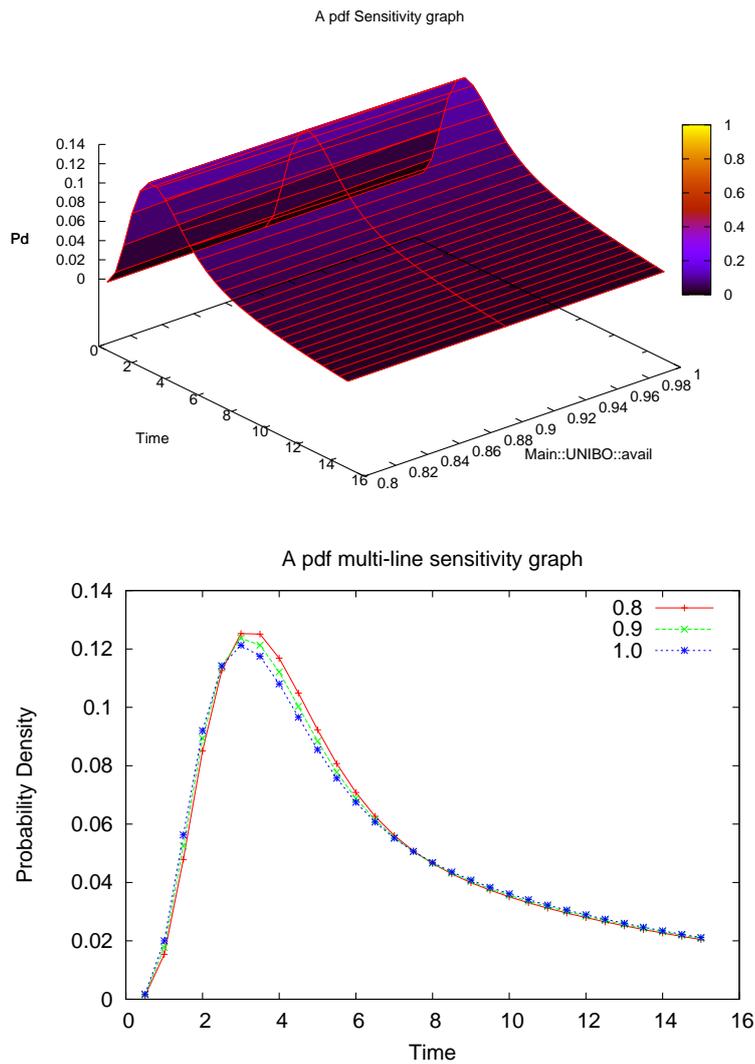


Figure 34: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-5-pdf.pdf and Main::UNIBO::avail-2-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

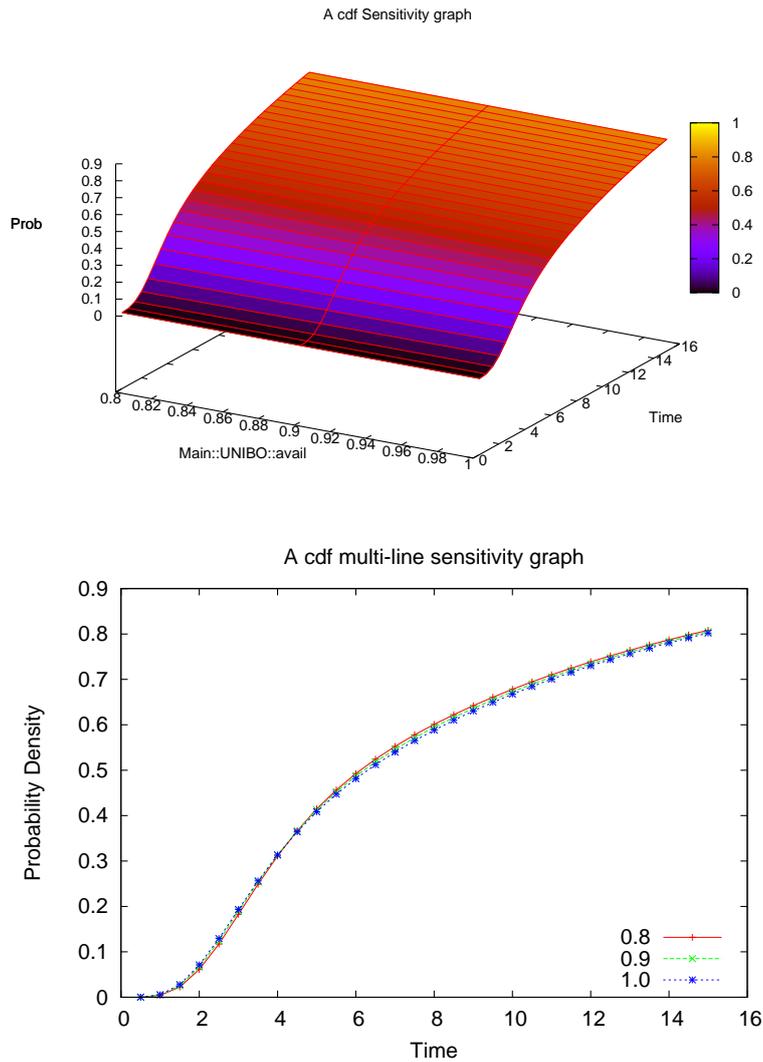


Figure 35: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-6-cdf.pdf and Main::UNIBO::avail-2-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

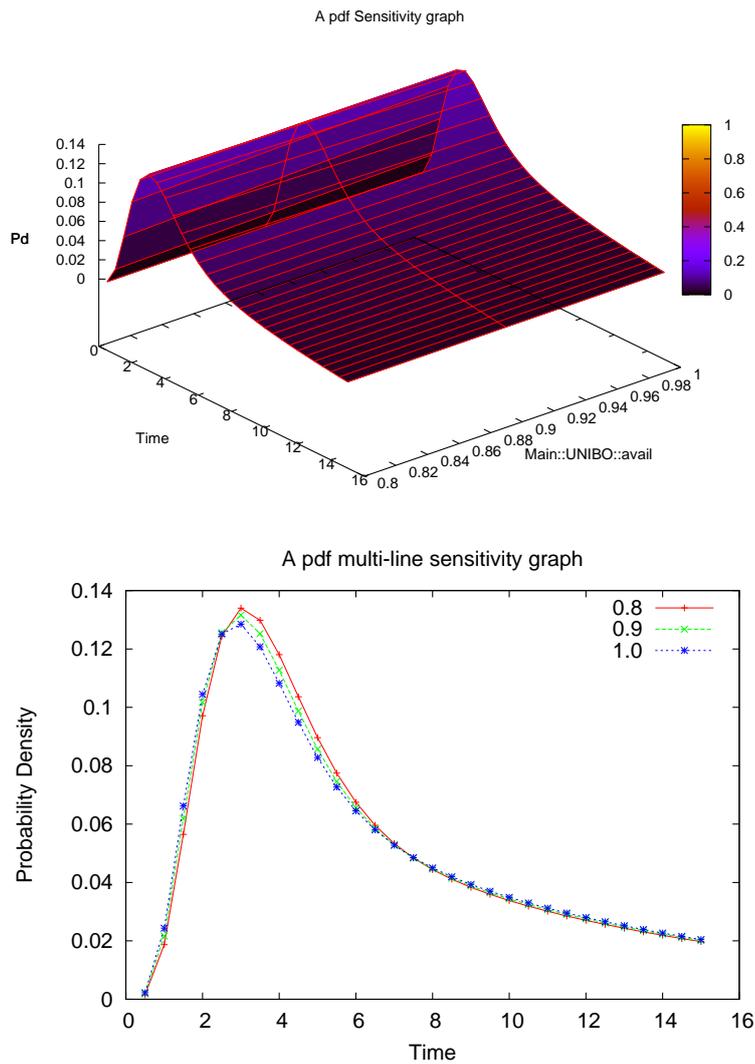


Figure 36: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-6-pdf.pdf and Main::UNIBO::avail-2-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

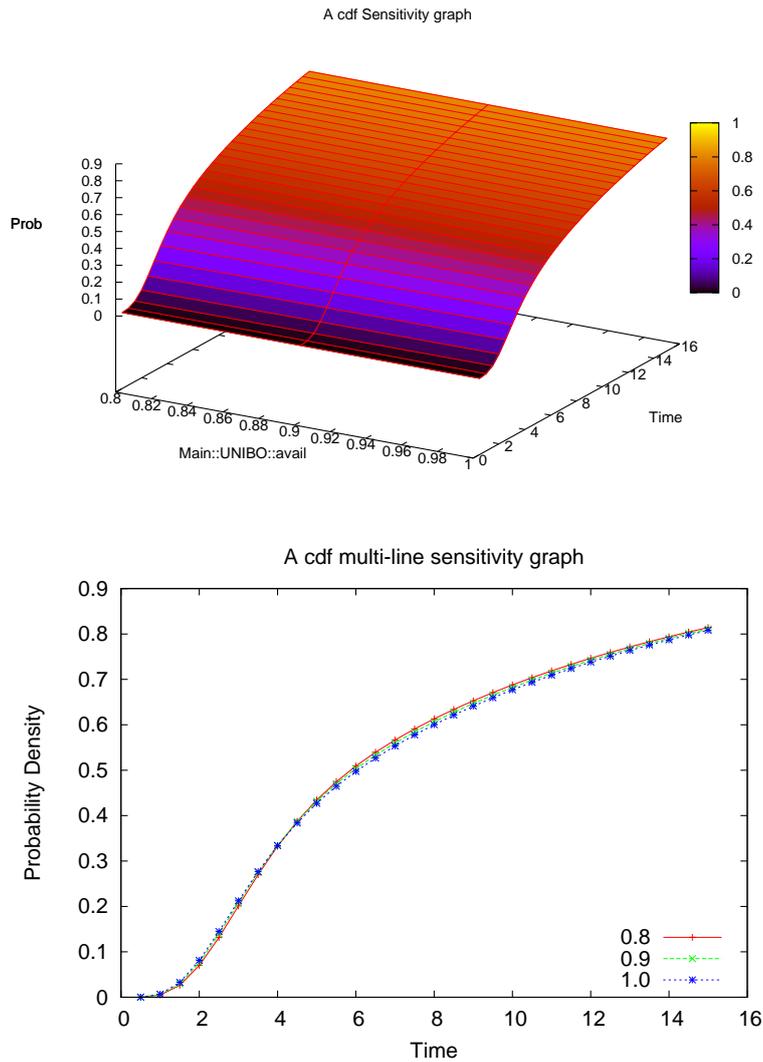


Figure 37: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-7-cdf.pdf and Main::UNIBO::avail-2-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

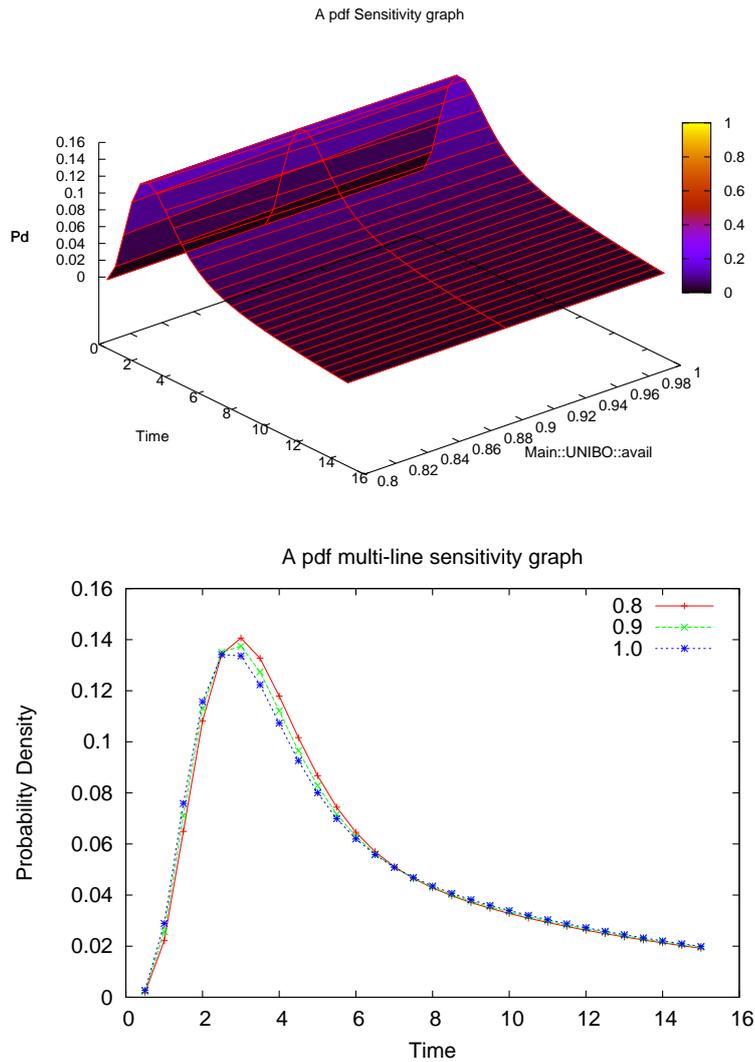


Figure 38: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-2-7-pdf.pdf and Main::UNIBO::avail-2-7-pdf-multi.pdf

## 2.4 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__HARRY__Idle
```

```
Main__Upload = Main__LMU__UPLOAD__Idle
```

```
Main__Download = Main__UEDIN__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

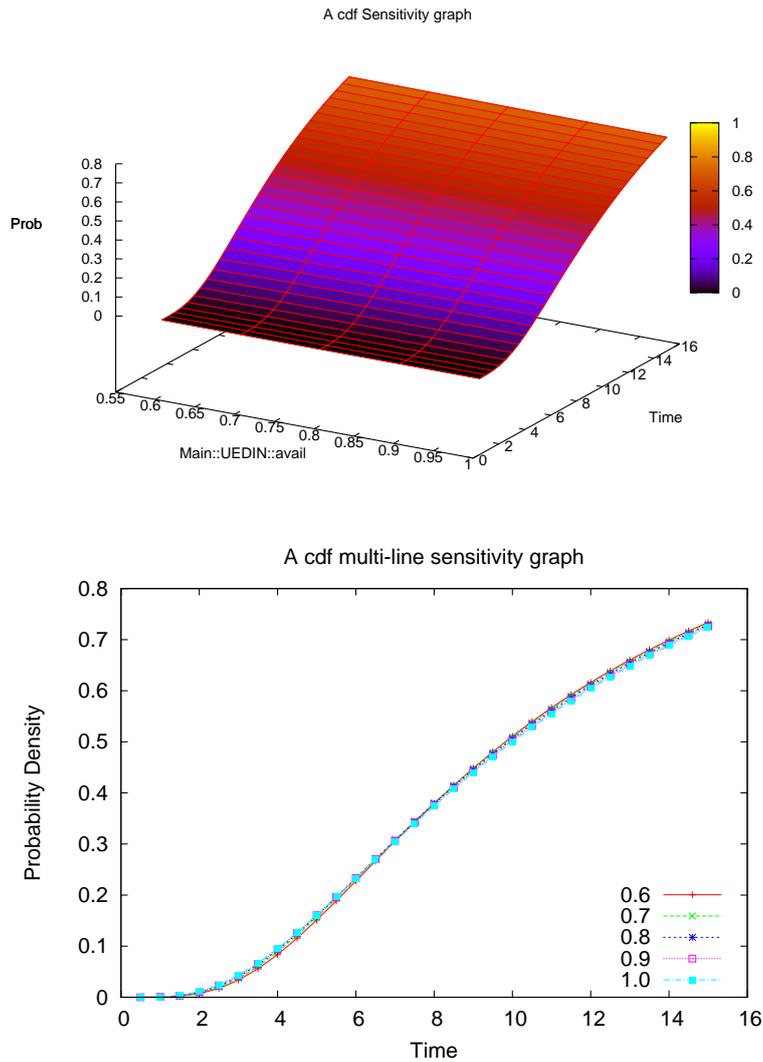


Figure 39: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-0-cdf.pdf and Main::UEDIN::avail-3-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

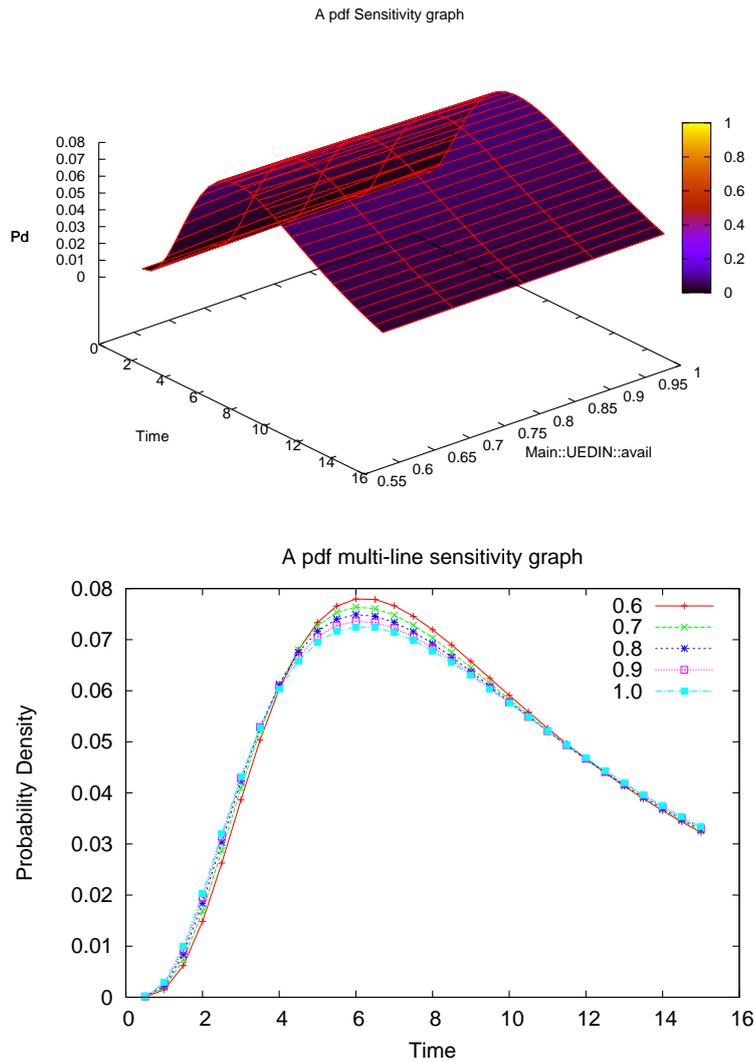


Figure 40: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-0-pdf.pdf and Main::UEDIN::avail-3-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

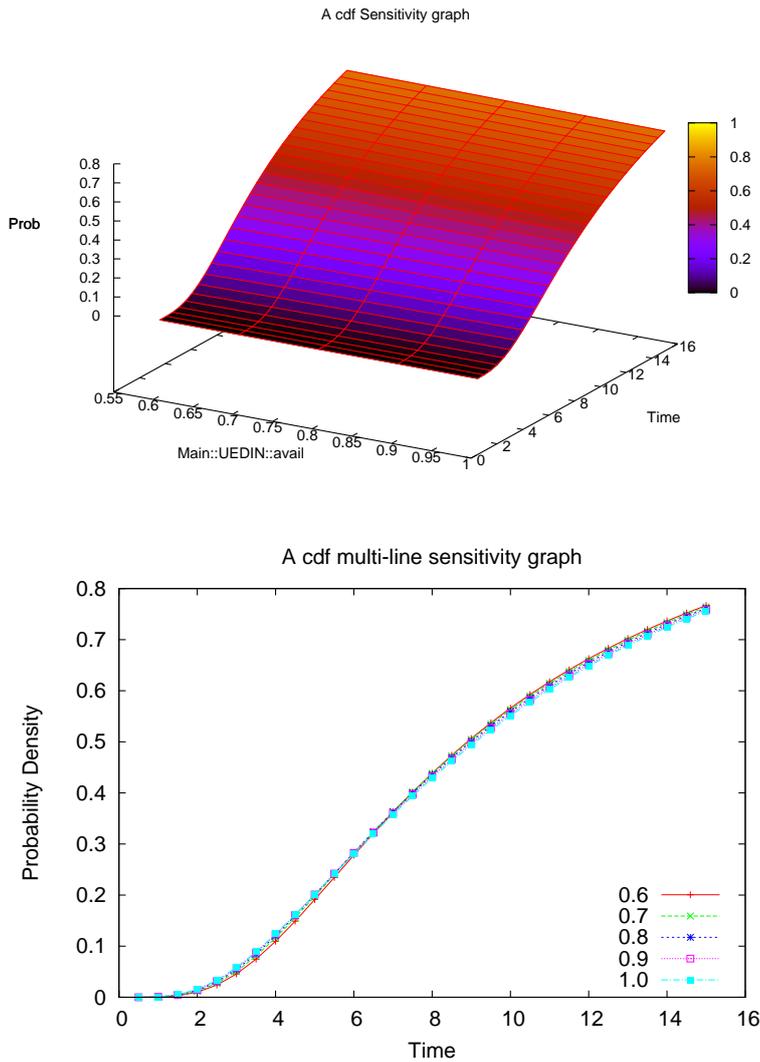


Figure 41: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-1-cdf.pdf and Main::UEDIN::avail-3-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

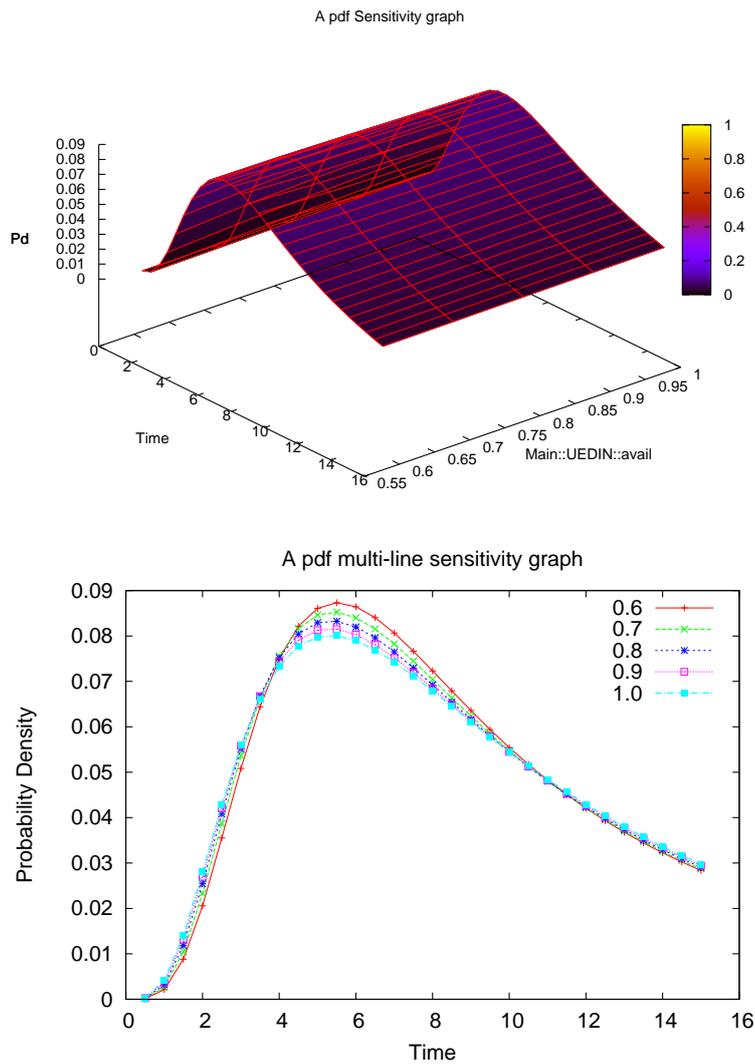


Figure 42: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-1-pdf.pdf and Main::UEDIN::avail-3-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

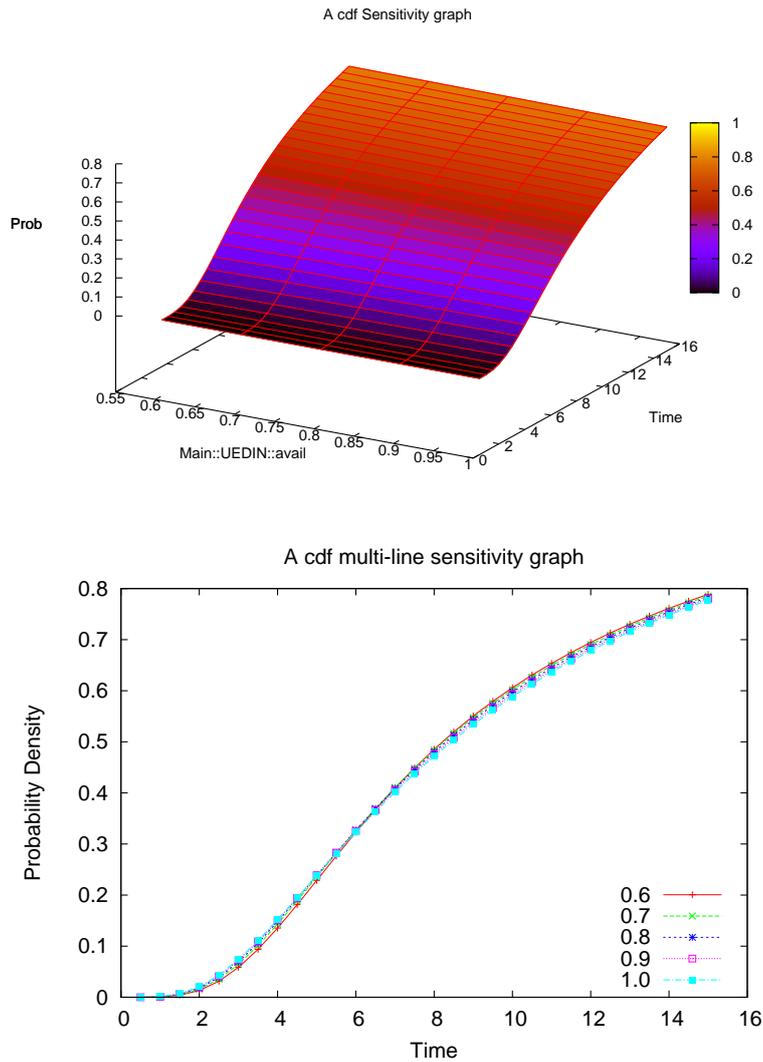


Figure 43: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-2-cdf.pdf and Main::UEDIN::avail-3-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

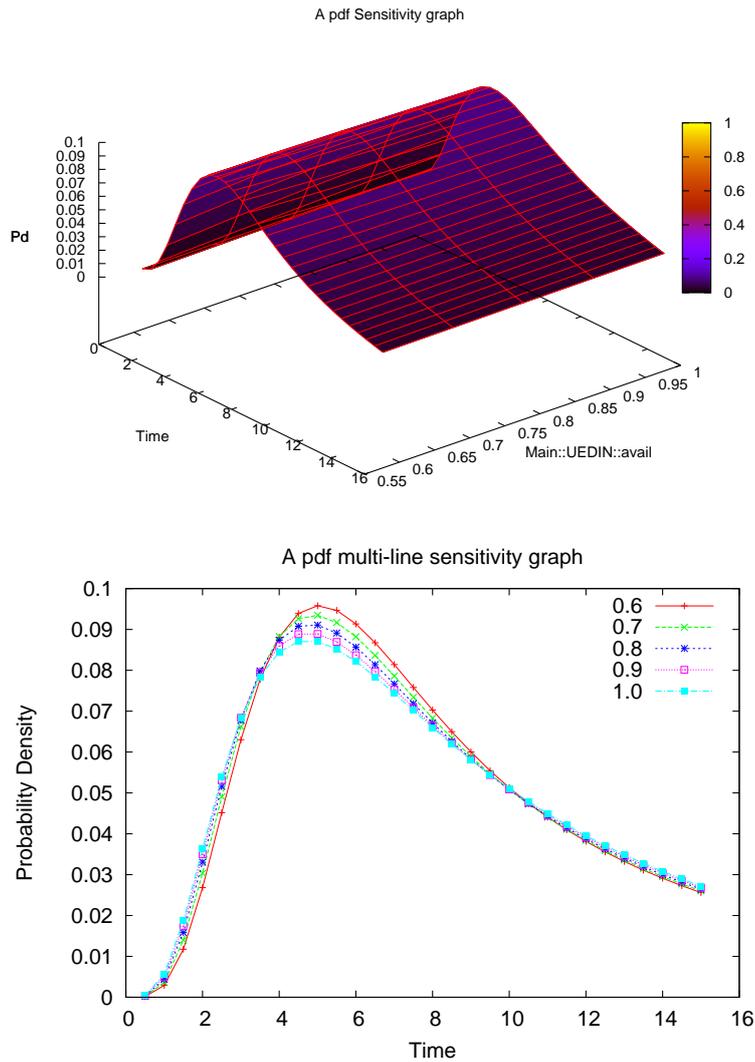


Figure 44: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-2-pdf.pdf and Main::UEDIN::avail-3-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

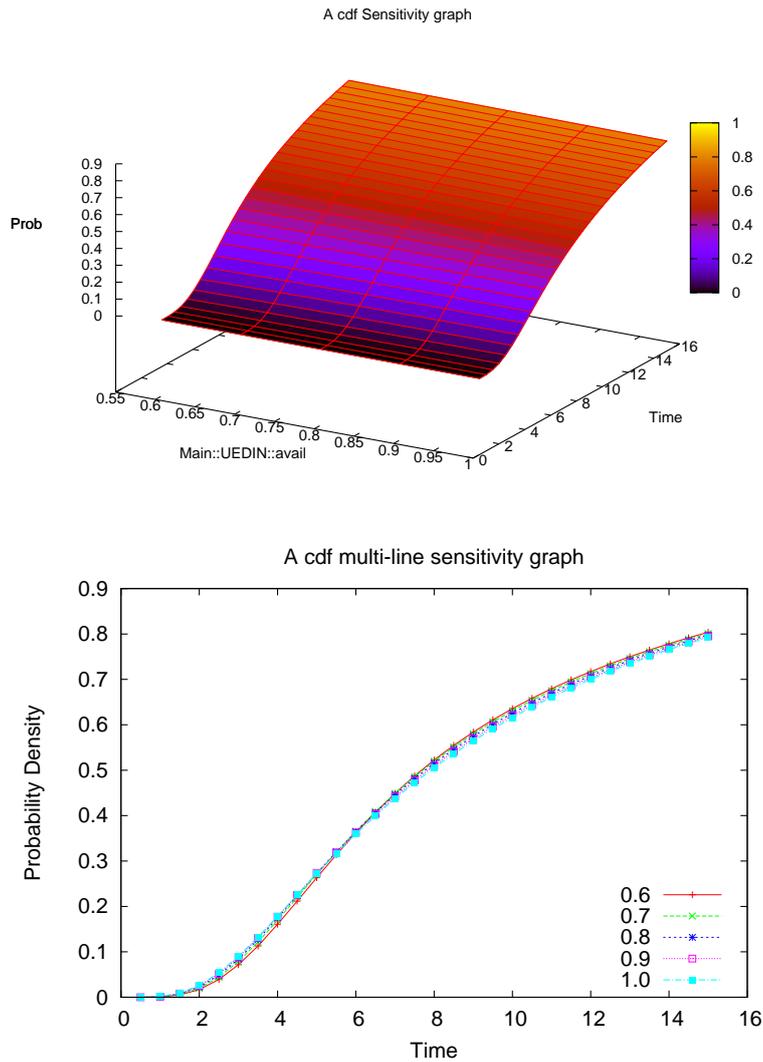


Figure 45: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-3-cdf.pdf and Main::UEDIN::avail-3-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

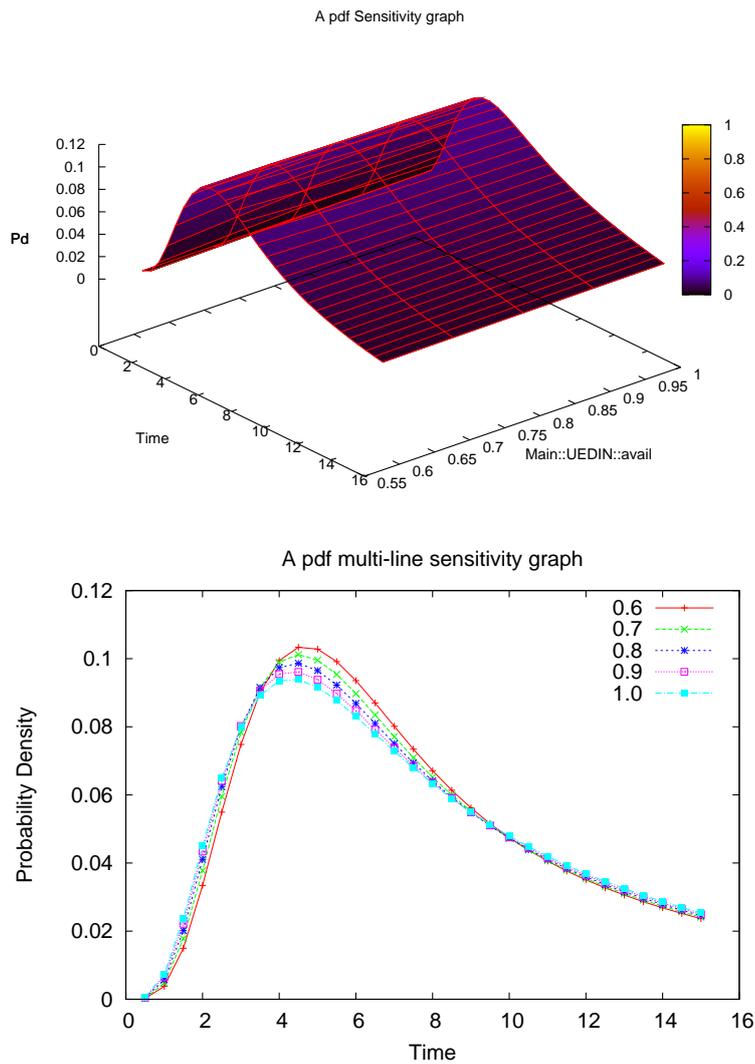


Figure 46: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-3-pdf.pdf and Main::UEDIN::avail-3-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

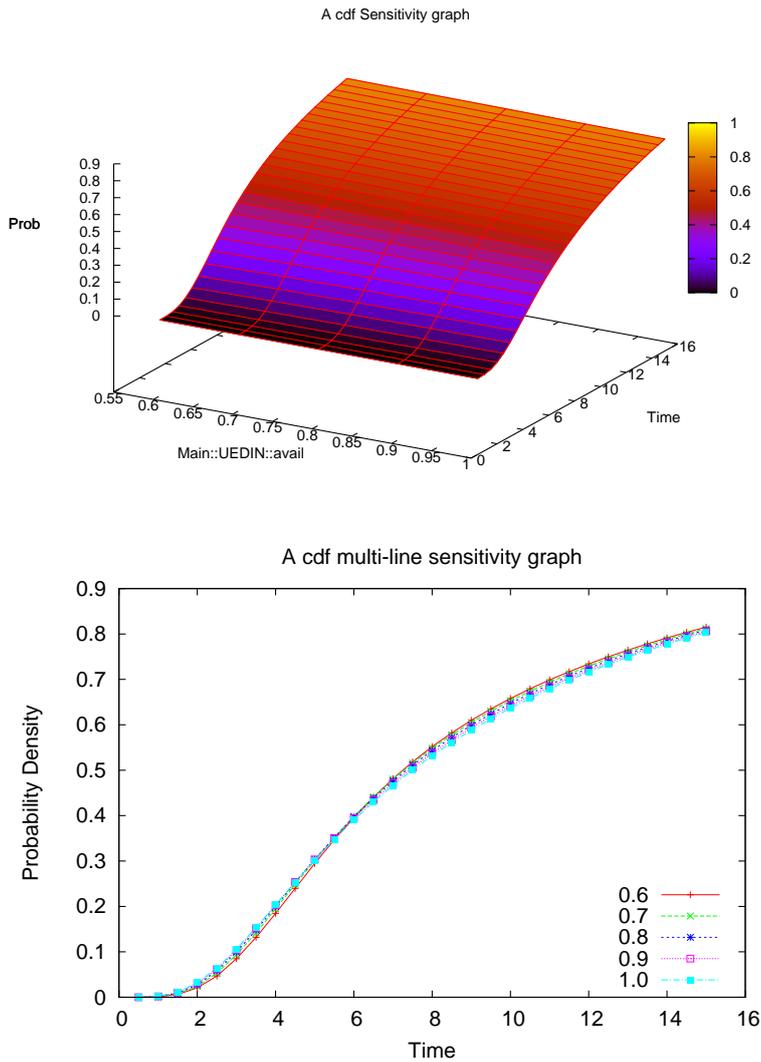


Figure 47: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-4-cdf.pdf and Main::UEDIN::avail-3-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

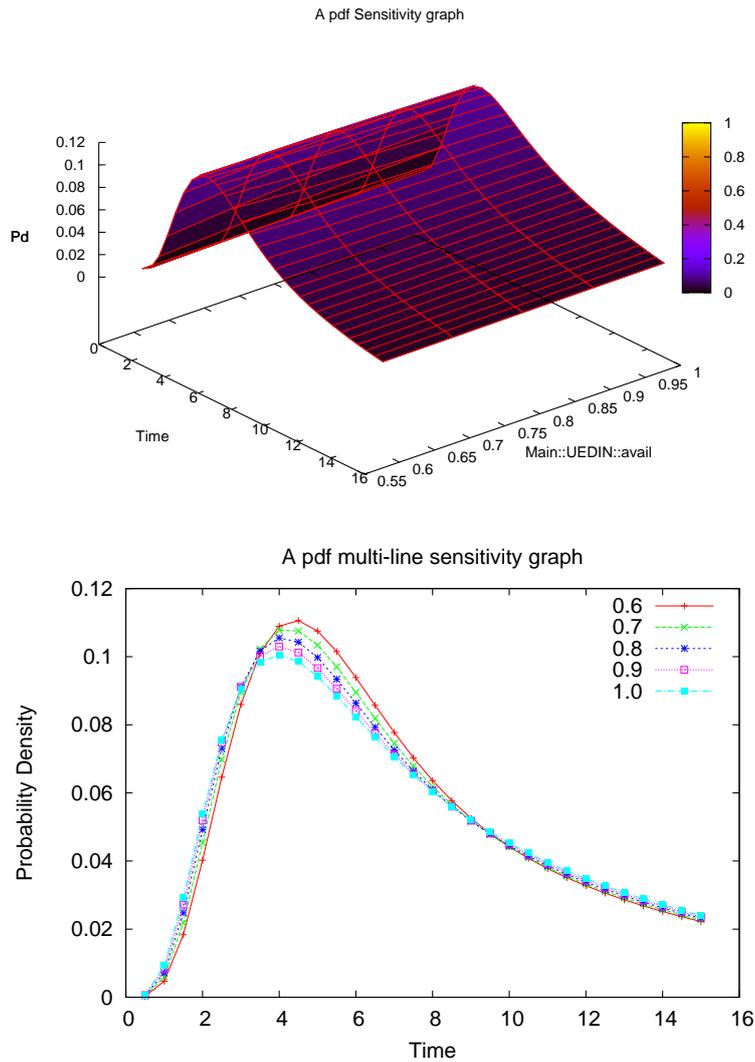


Figure 48: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-3-4-pdf.pdf and Main::UEDIN::avail-3-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

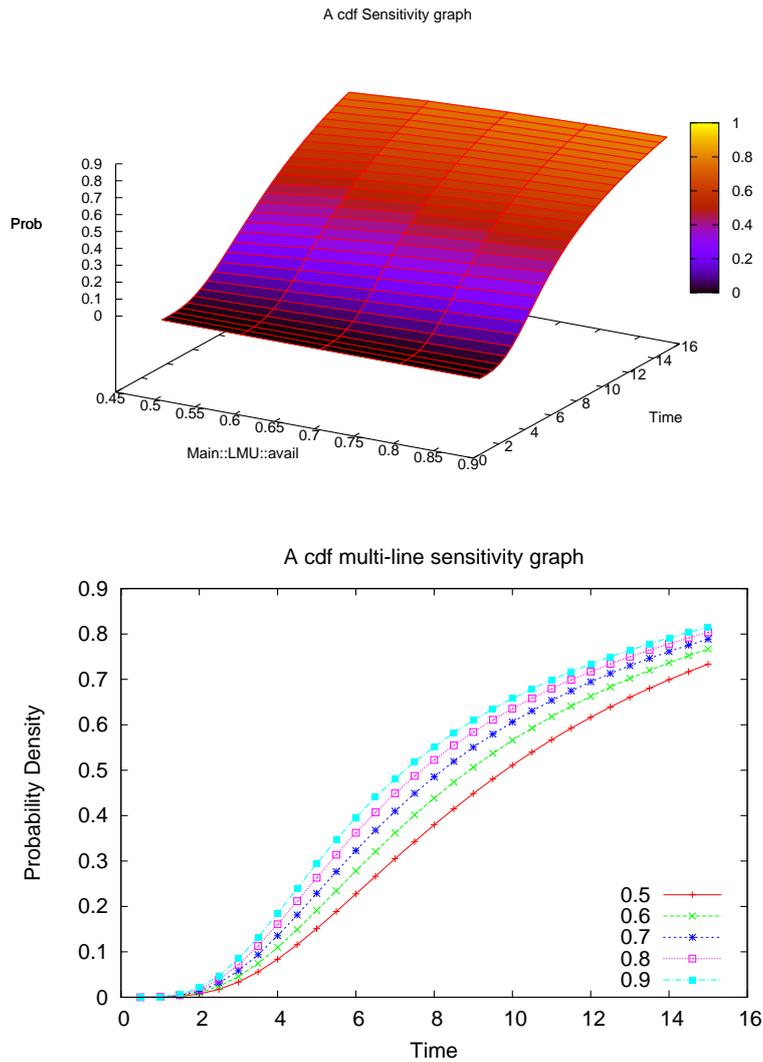


Figure 49: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-5-cdf.pdf and Main::LMU::avail-3-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UEDIN::avail = 0.6

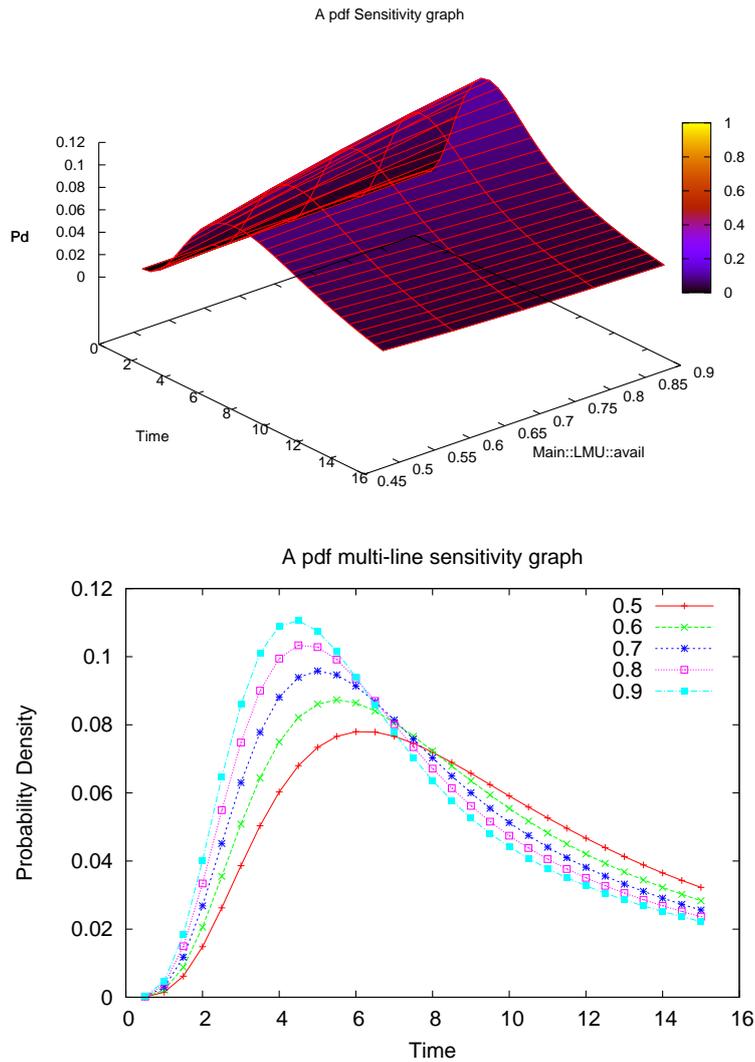


Figure 50: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-5-pdf.pdf and Main::LMU::avail-3-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

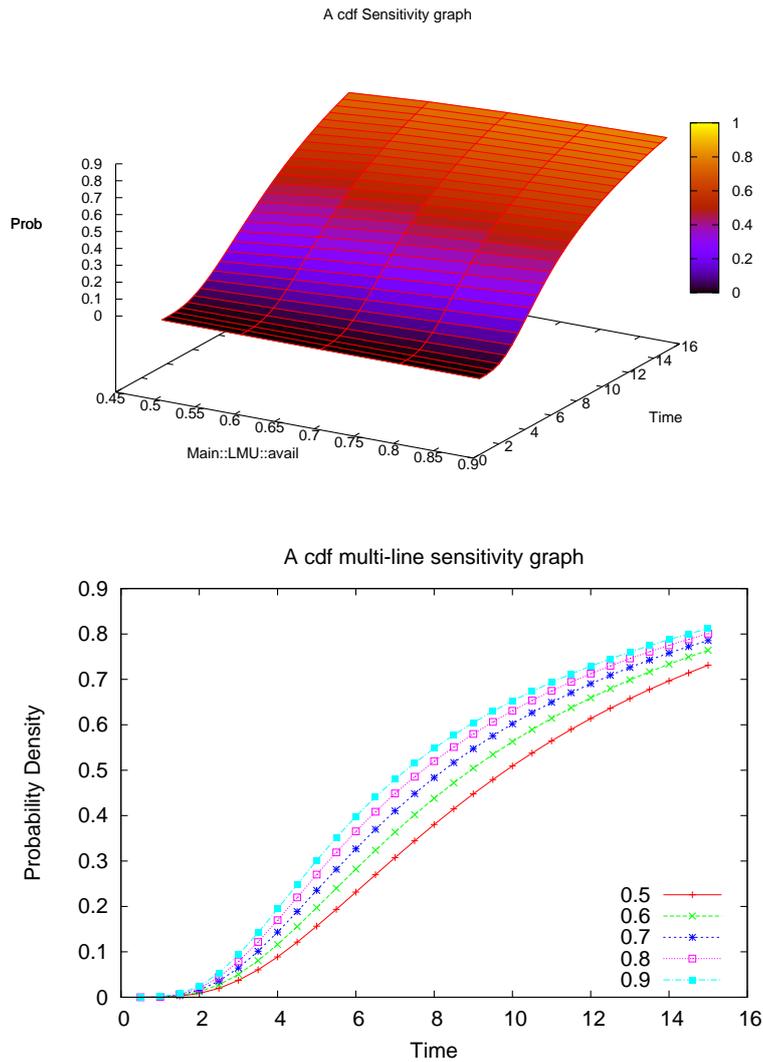


Figure 51: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-6-cdf.pdf and Main::LMU::avail-3-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::LMU::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UEDIN::avail = 0.7`

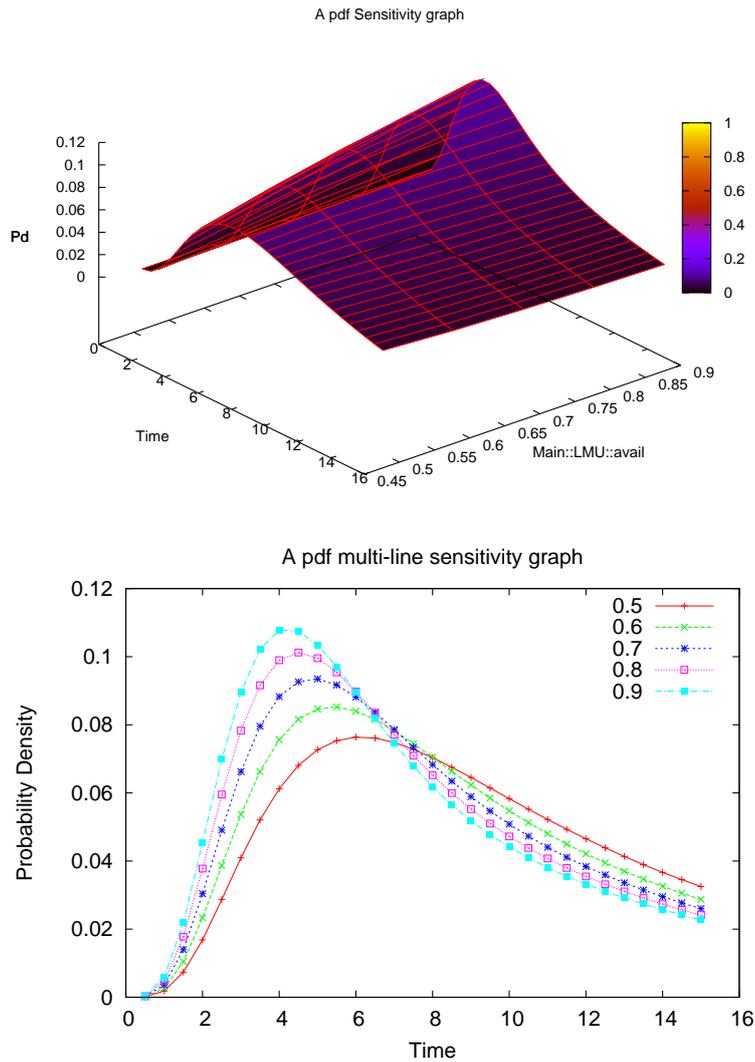


Figure 52: Sensitivity graphs of pdfs for the rate: `Main::LMU::avail`

The file names are: `Main::LMU::avail-3-6-pdf.pdf` and `Main::LMU::avail-3-6-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

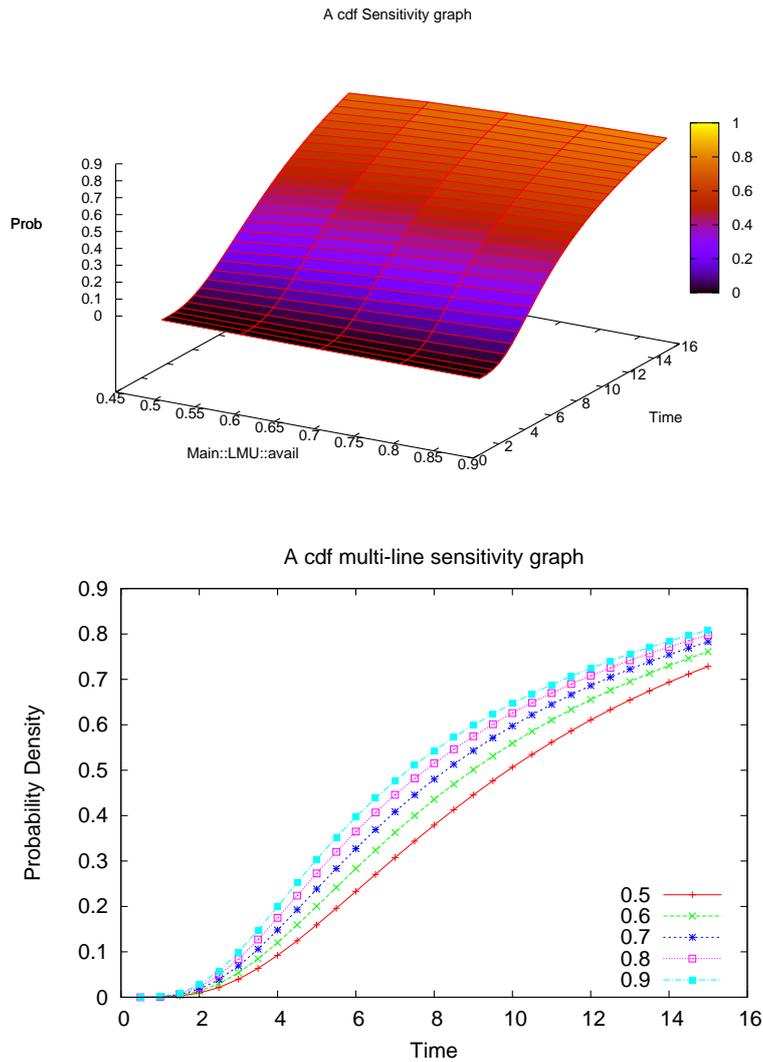


Figure 53: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-7-cdf.pdf and Main::LMU::avail-3-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

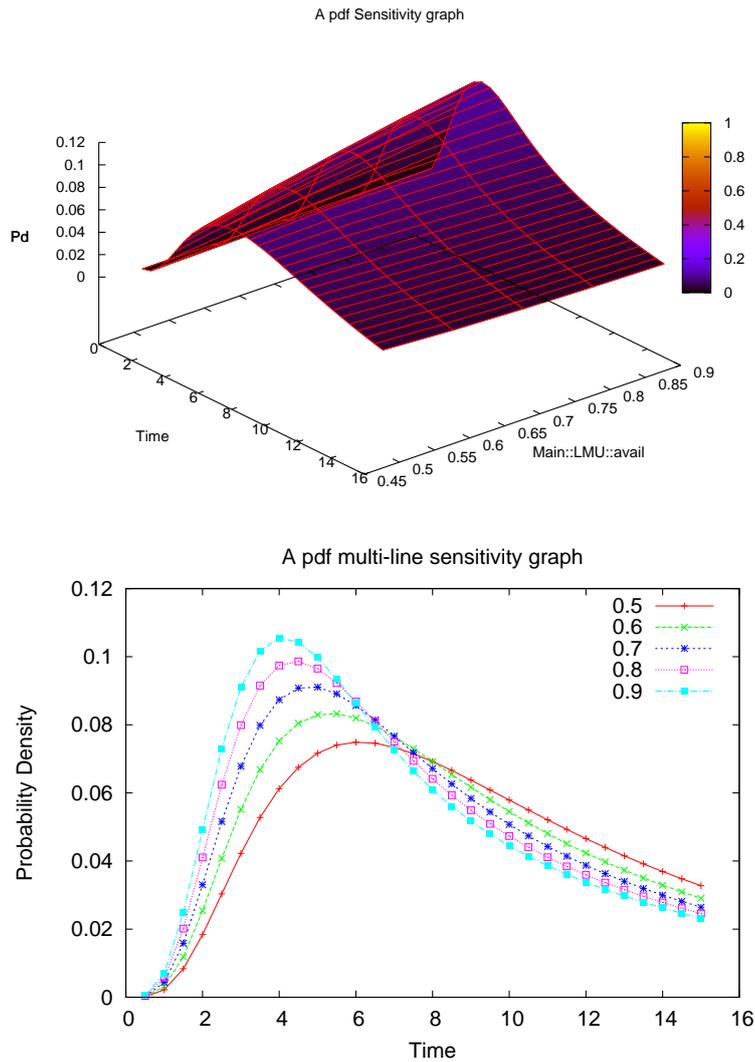


Figure 54: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-7-pdf.pdf and Main::LMU::avail-3-7-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

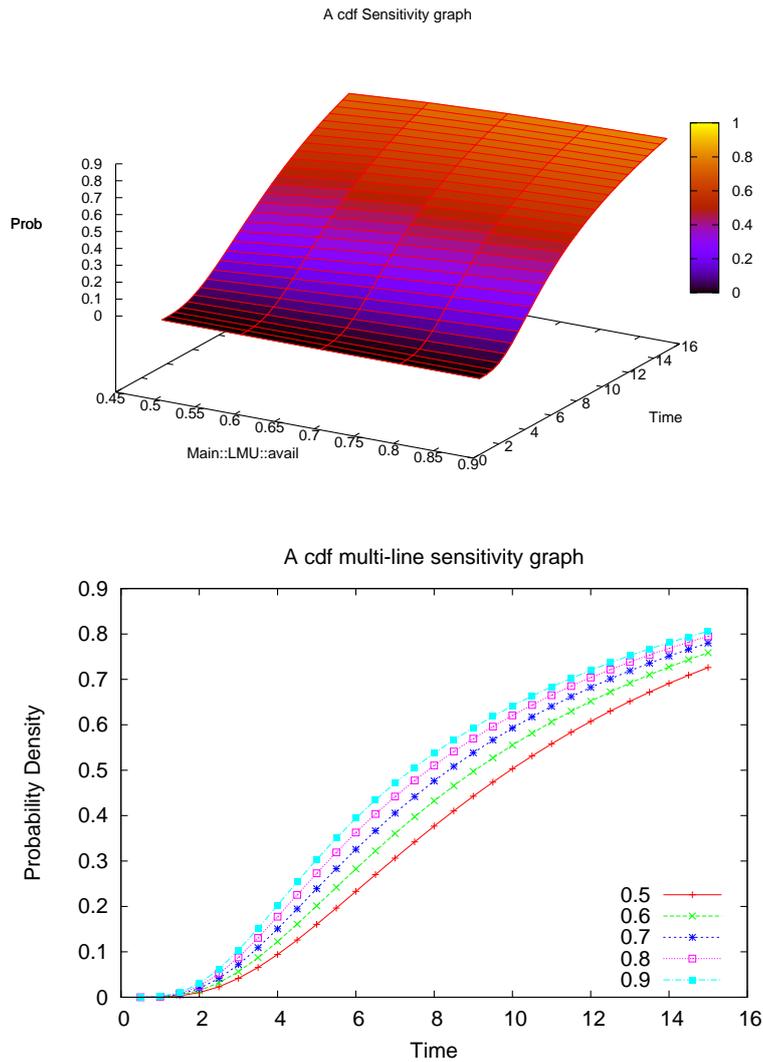


Figure 55: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-8-cdf.pdf and Main::LMU::avail-3-8-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

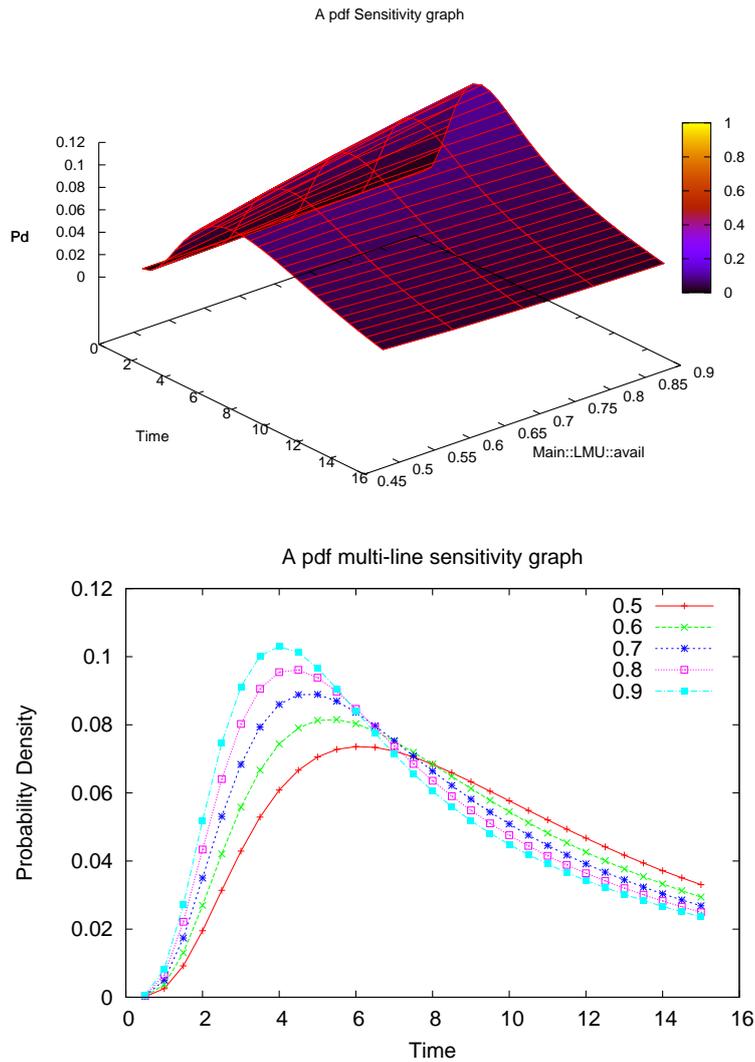


Figure 56: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-8-pdf.pdf and Main::LMU::avail-3-8-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

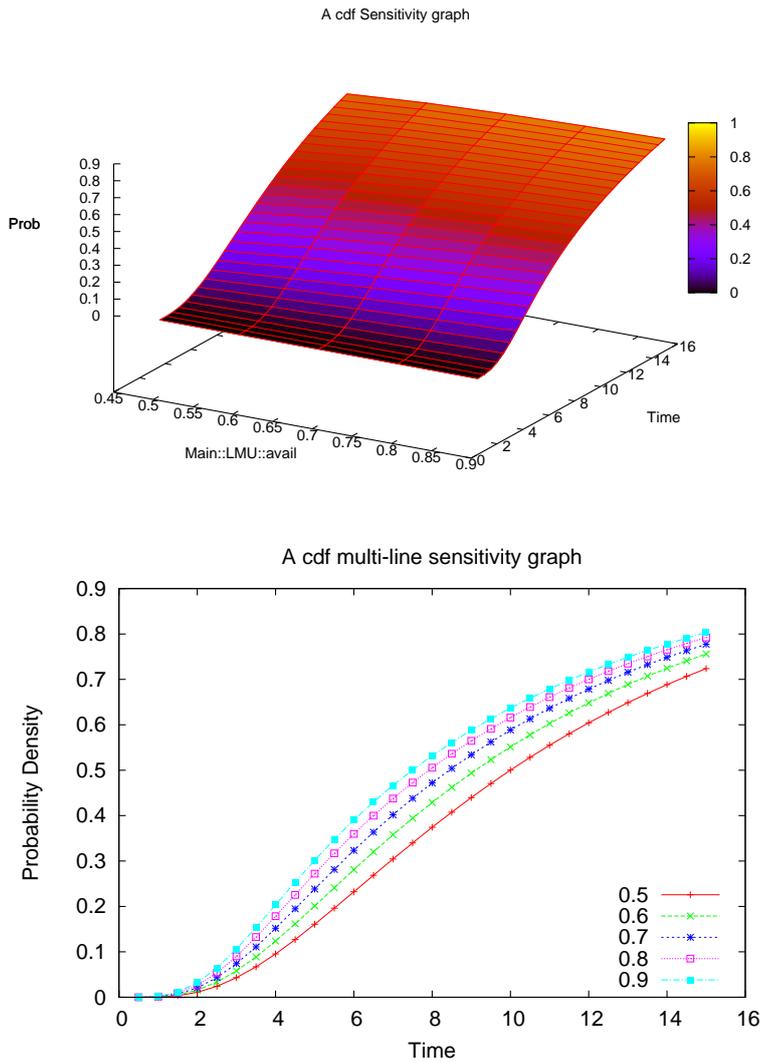


Figure 57: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-9-cdf.pdf and Main::LMU::avail-3-9-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UEDIN::avail = 1.0

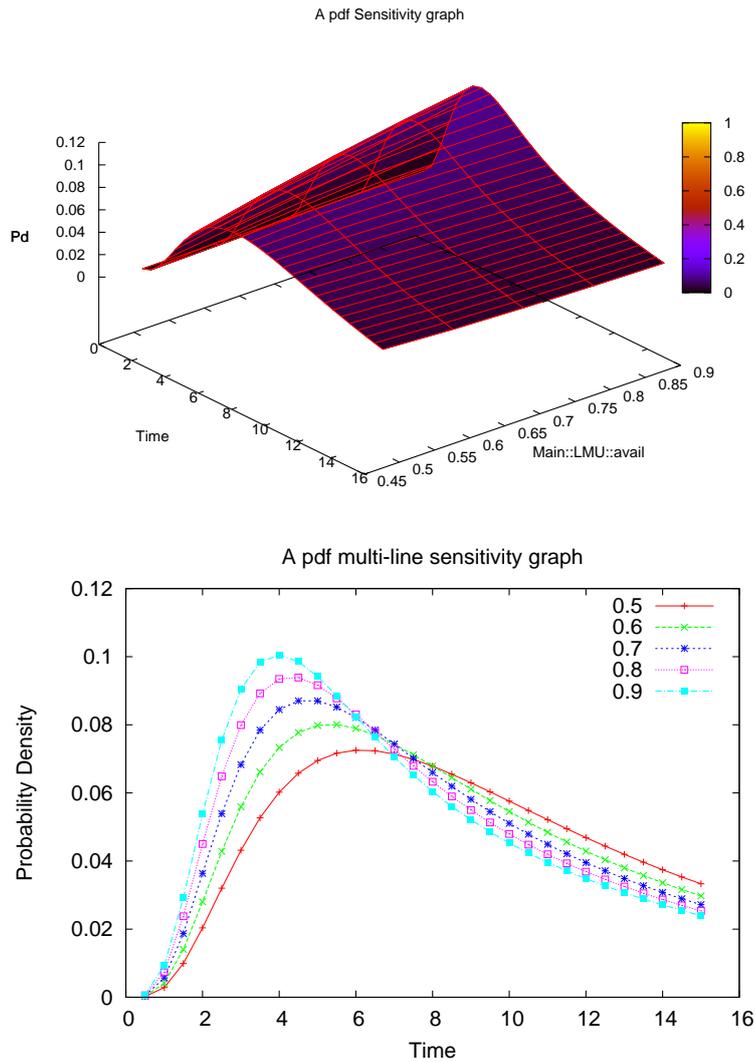


Figure 58: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-3-9-pdf.pdf and Main::LMU::avail-3-9-pdf-multi.pdf

## 2.5 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__HARRY__Idle  
Main__Upload = Main__LMU__UPLOAD__Idle  
Main__Download = Main__LMU__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::LMU::avail.

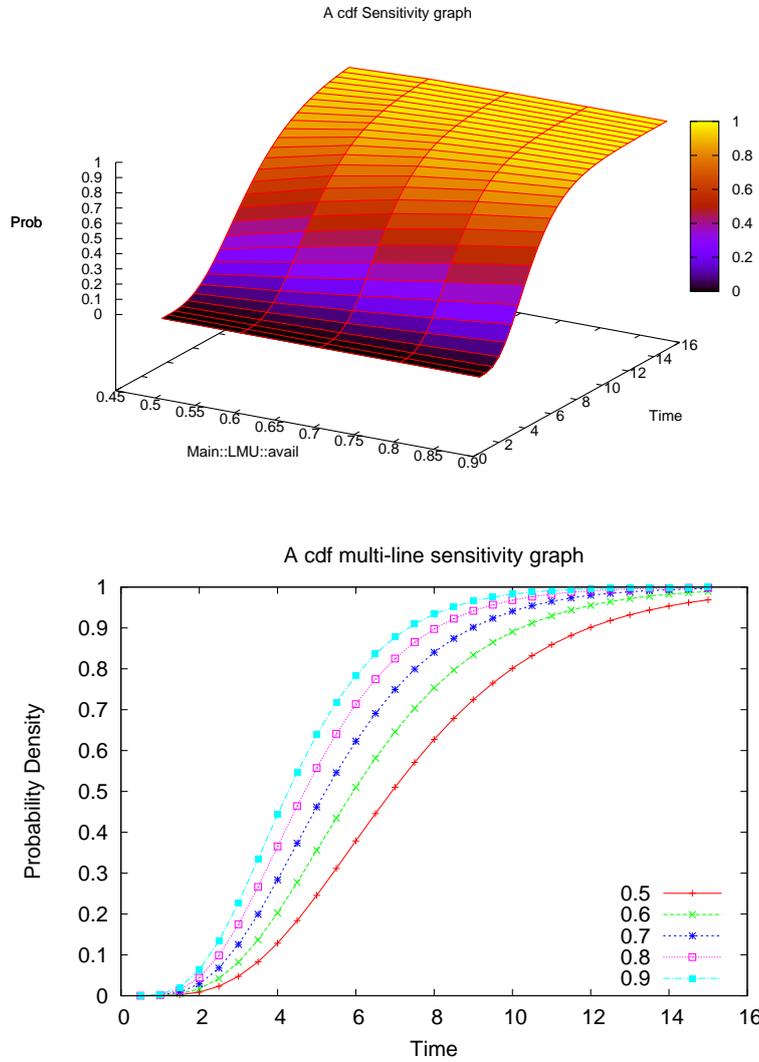


Figure 59: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-4-0-cdf.pdf and Main::LMU::avail-4-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail.

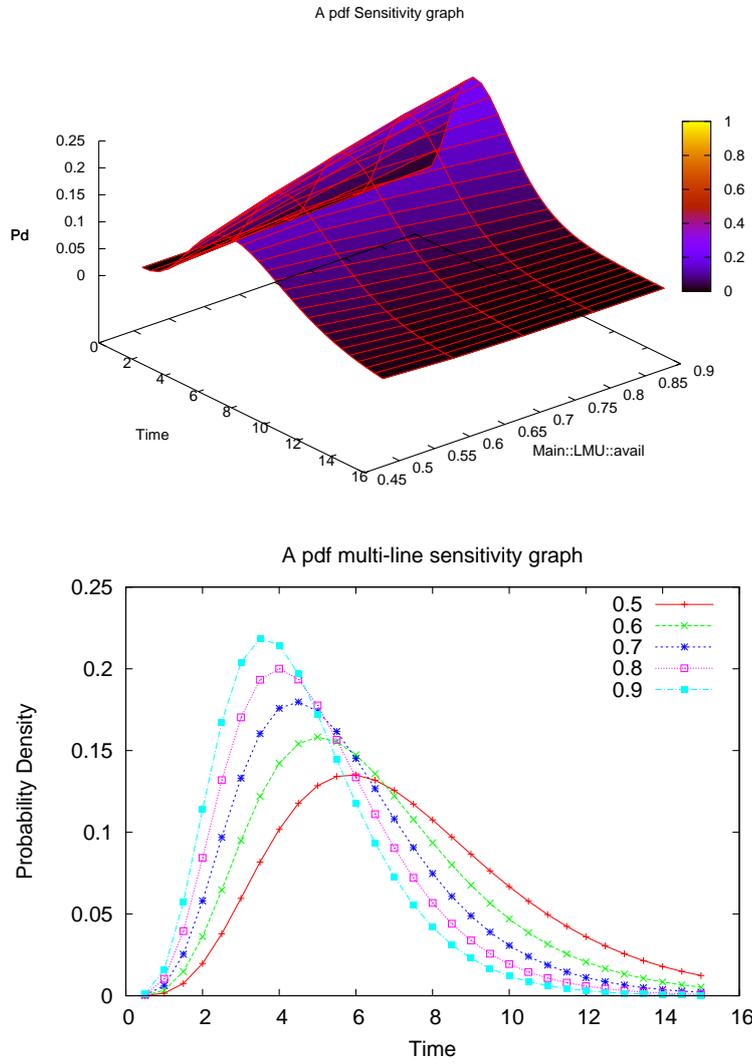


Figure 60: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-4-0-pdf.pdf and Main::LMU::avail-4-0-pdf-multi.pdf

## 2.6 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__HARRY__Idle`

`Main__Upload = Main__LMU__UPLOAD__Idle`

`Main__Download = Main__UNIBO__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

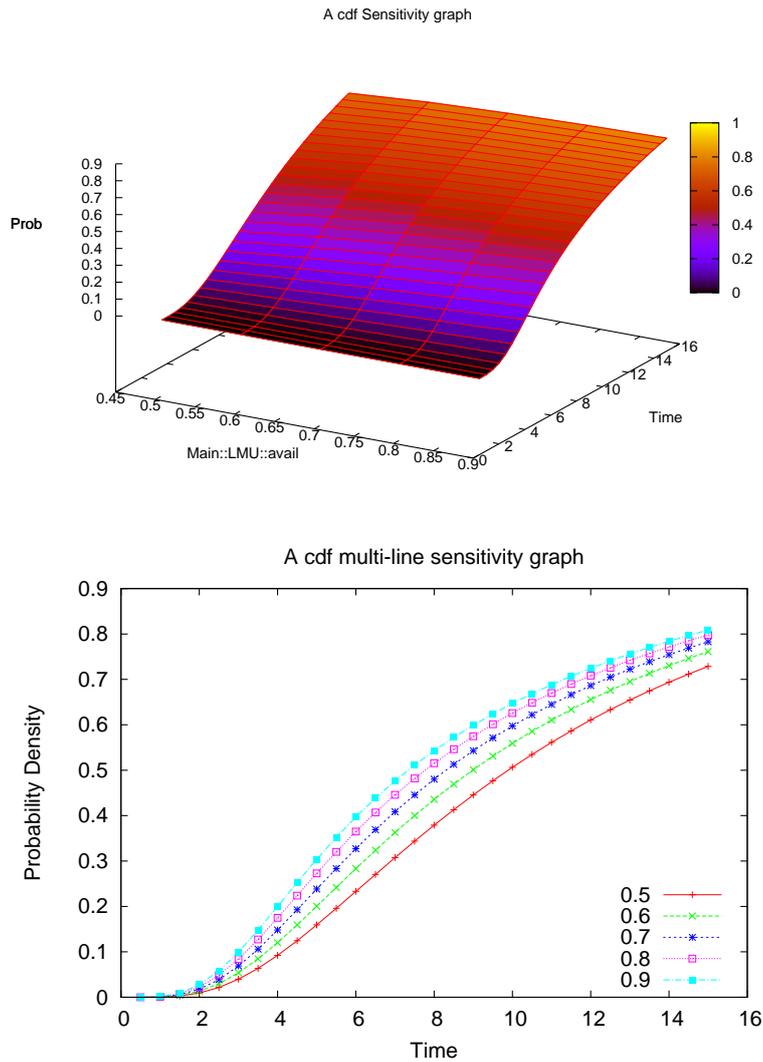


Figure 61: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-5-0-cdf.pdf and Main::LMU::avail-5-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UNIBO::avail = 0.8

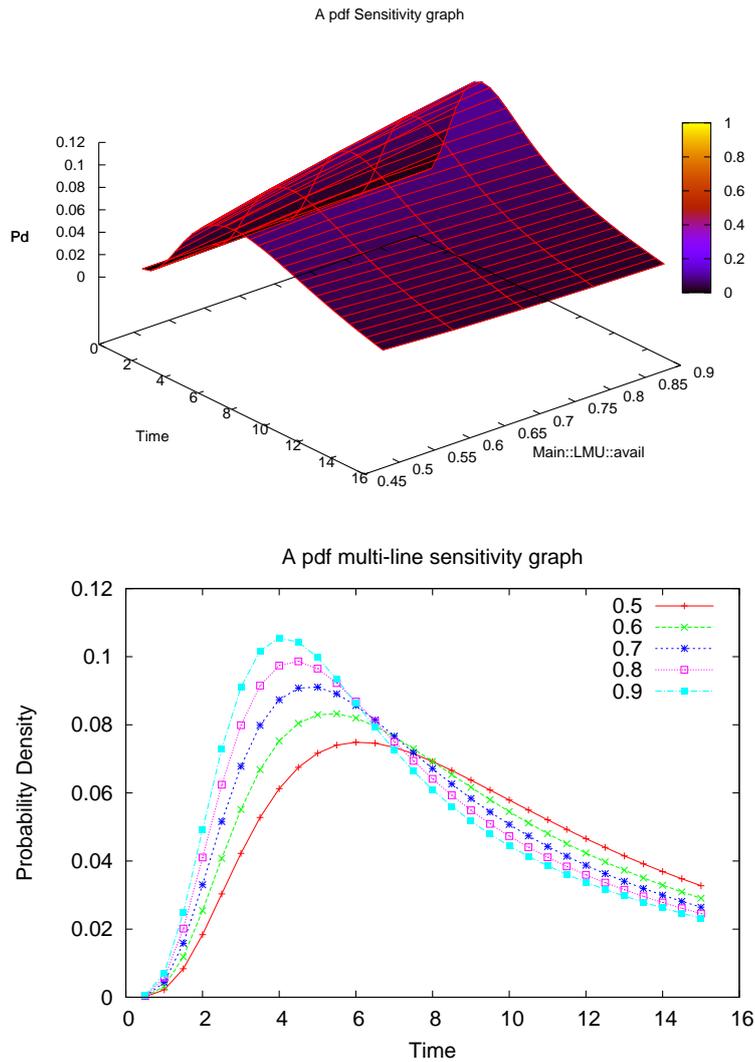


Figure 62: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-5-0-pdf.pdf and Main::LMU::avail-5-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

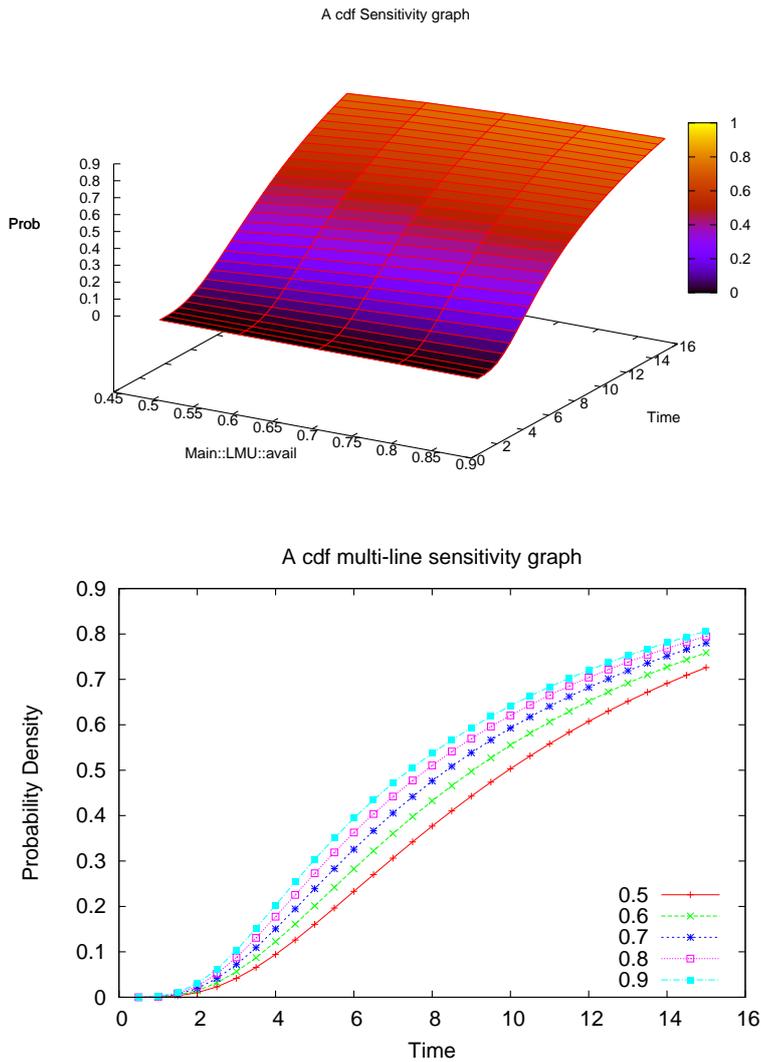


Figure 63: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-5-1-cdf.pdf and Main::LMU::avail-5-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UNIBO::avail = 0.9

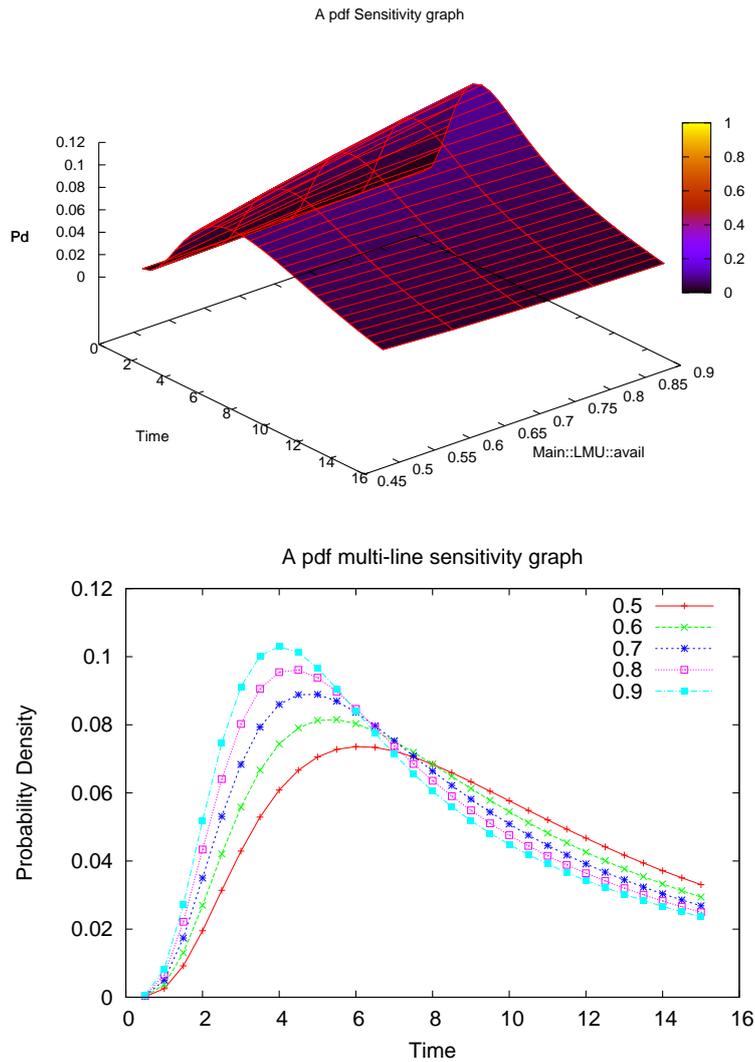


Figure 64: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-5-1-pdf.pdf and Main::LMU::avail-5-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

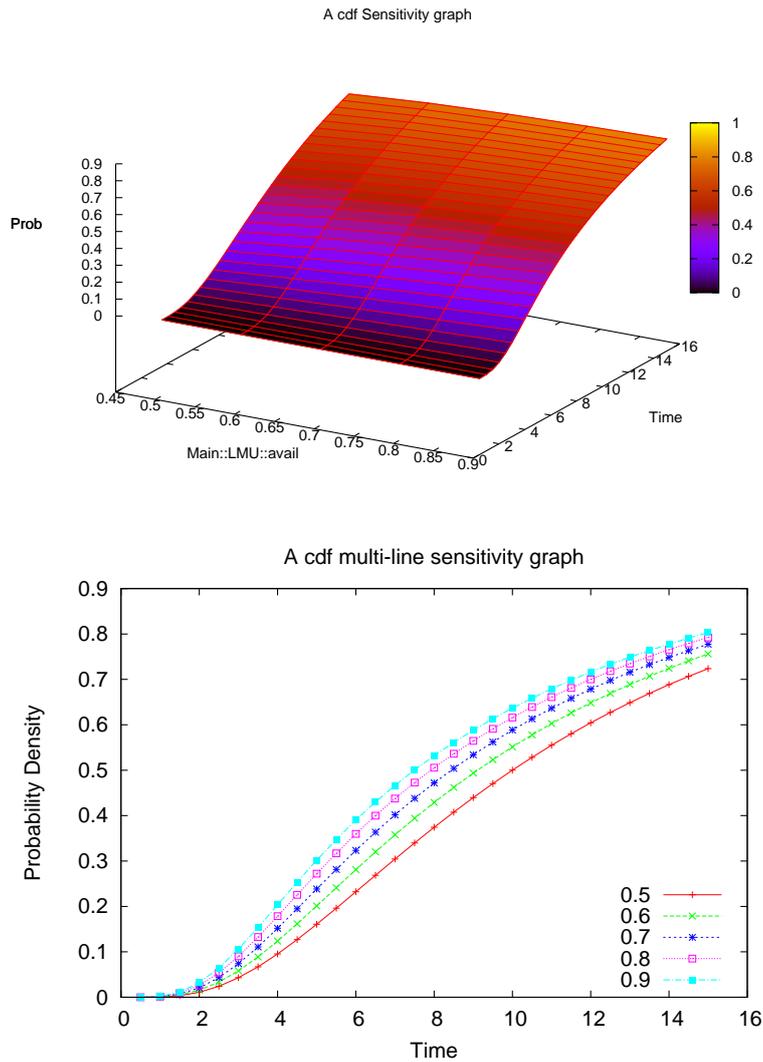


Figure 65: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-5-2-cdf.pdf and Main::LMU::avail-5-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UNIBO::avail = 1.0

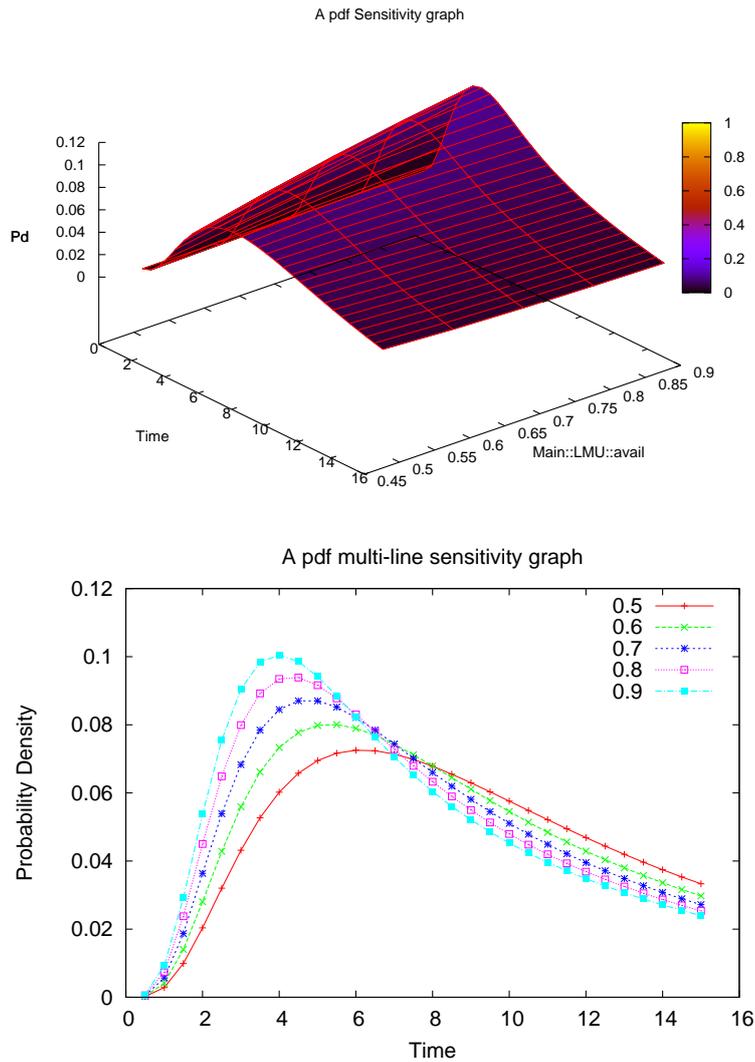


Figure 66: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-5-2-pdf.pdf and Main::LMU::avail-5-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

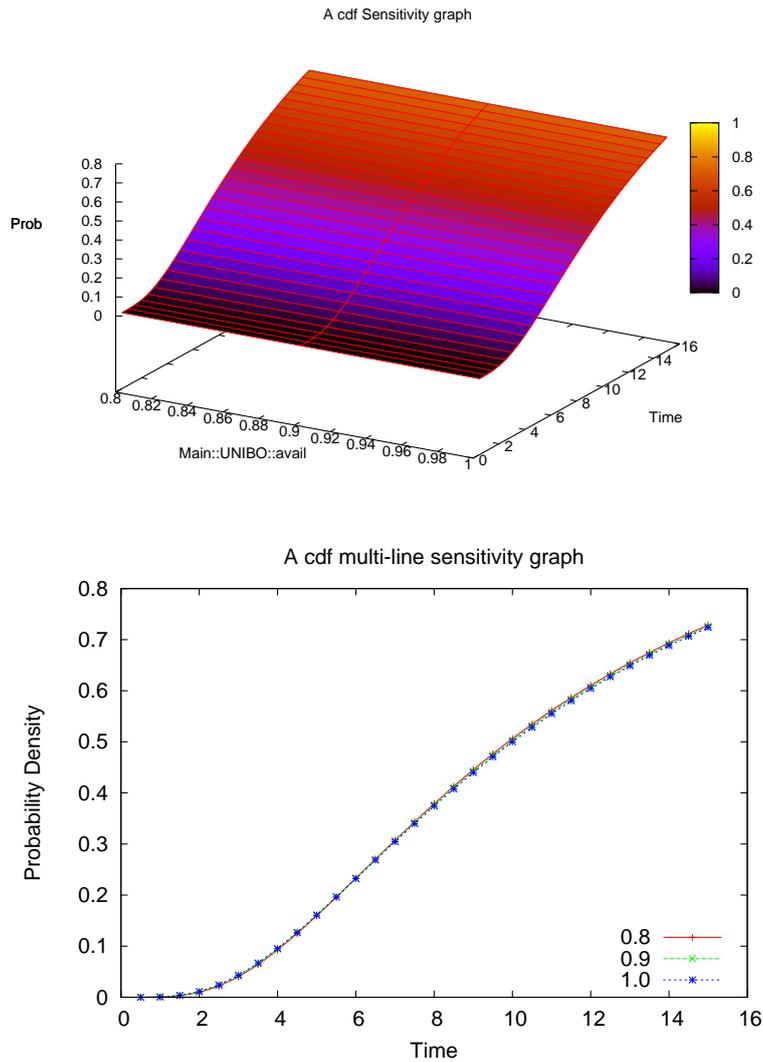


Figure 67: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-3-cdf.pdf and Main::UNIBO::avail-5-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

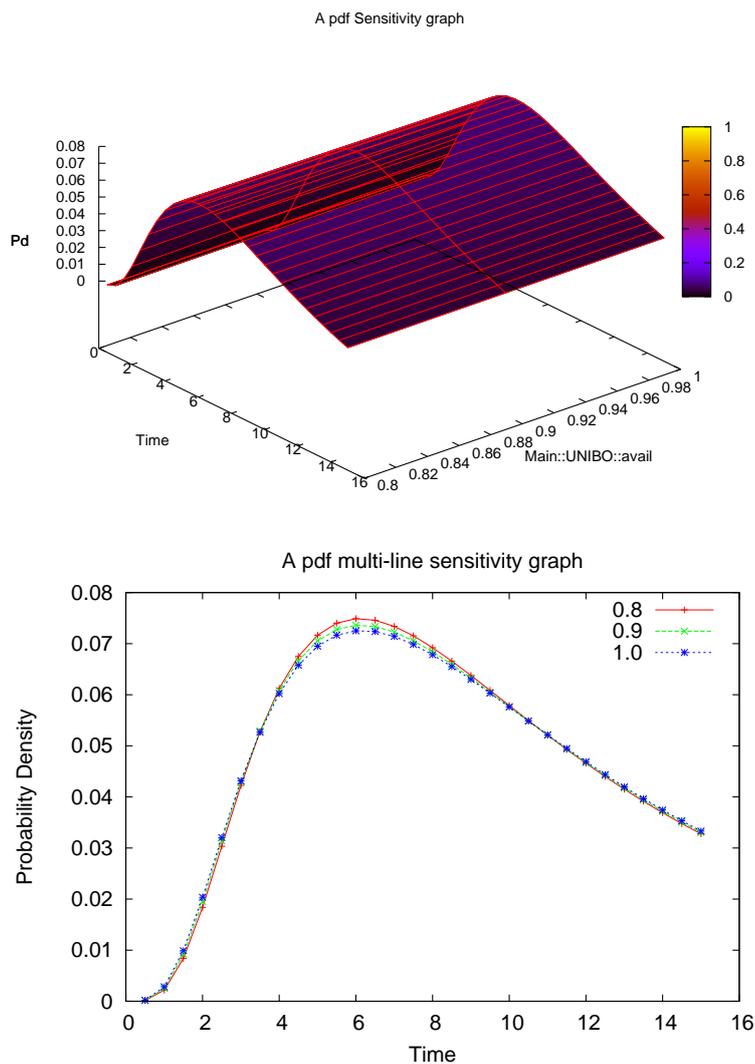


Figure 68: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-3-pdf.pdf and Main::UNIBO::avail-5-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

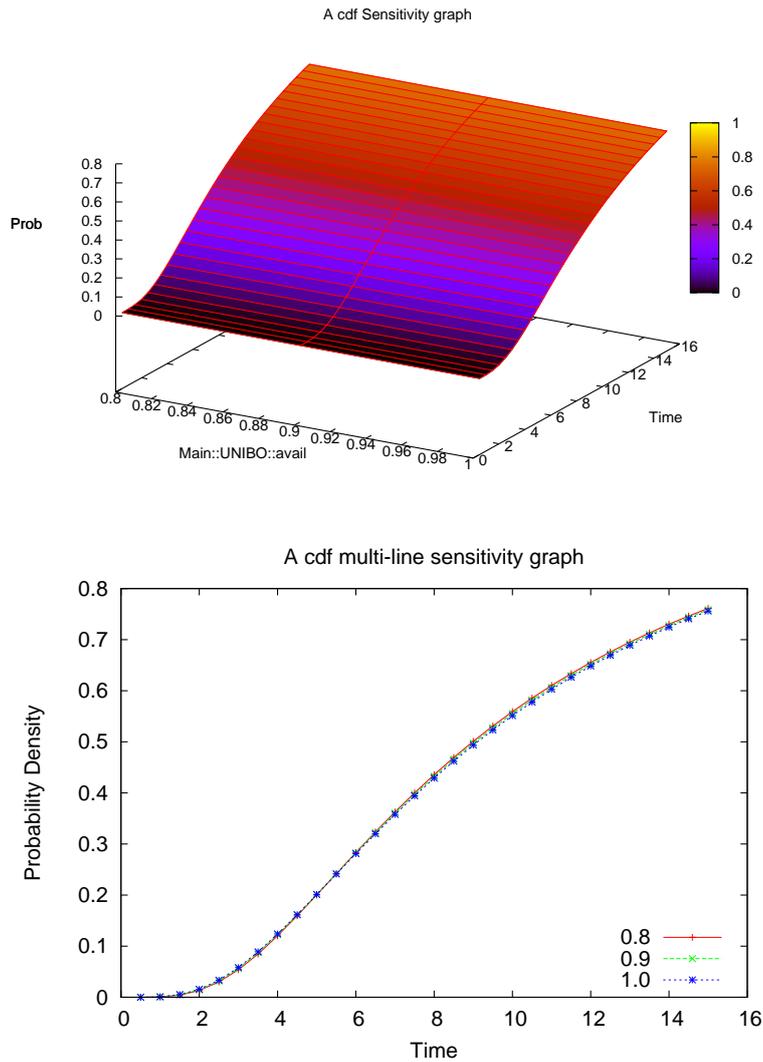


Figure 69: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-4-cdf.pdf and Main::UNIBO::avail-5-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

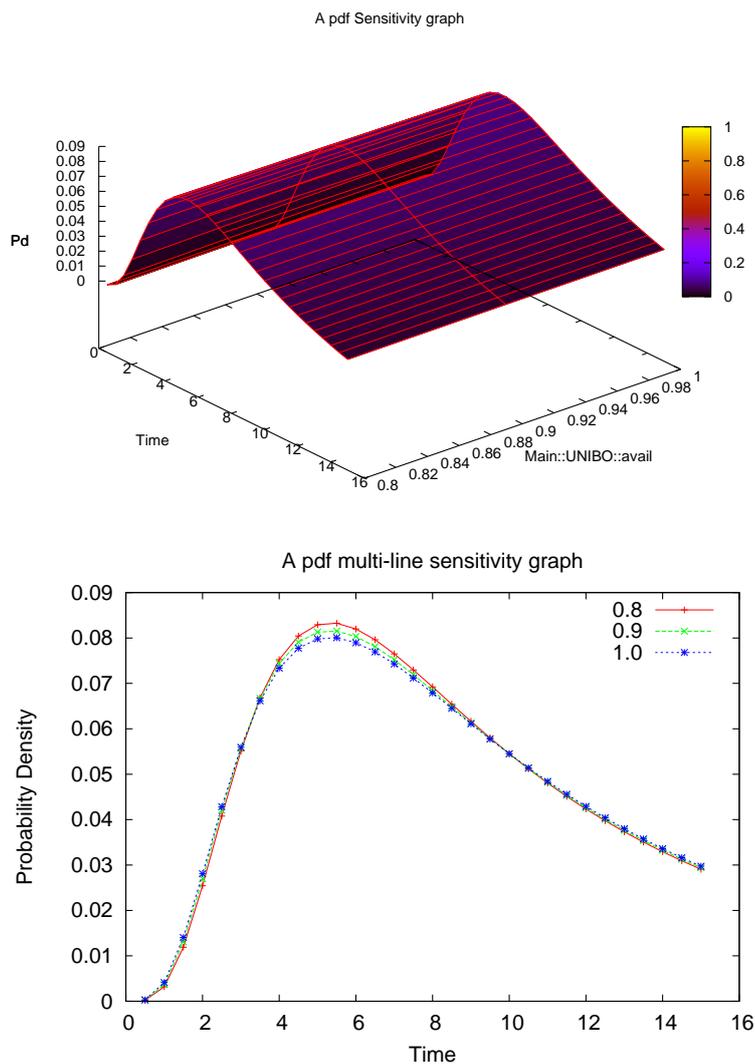


Figure 70: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-4-pdf.pdf and Main::UNIBO::avail-5-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

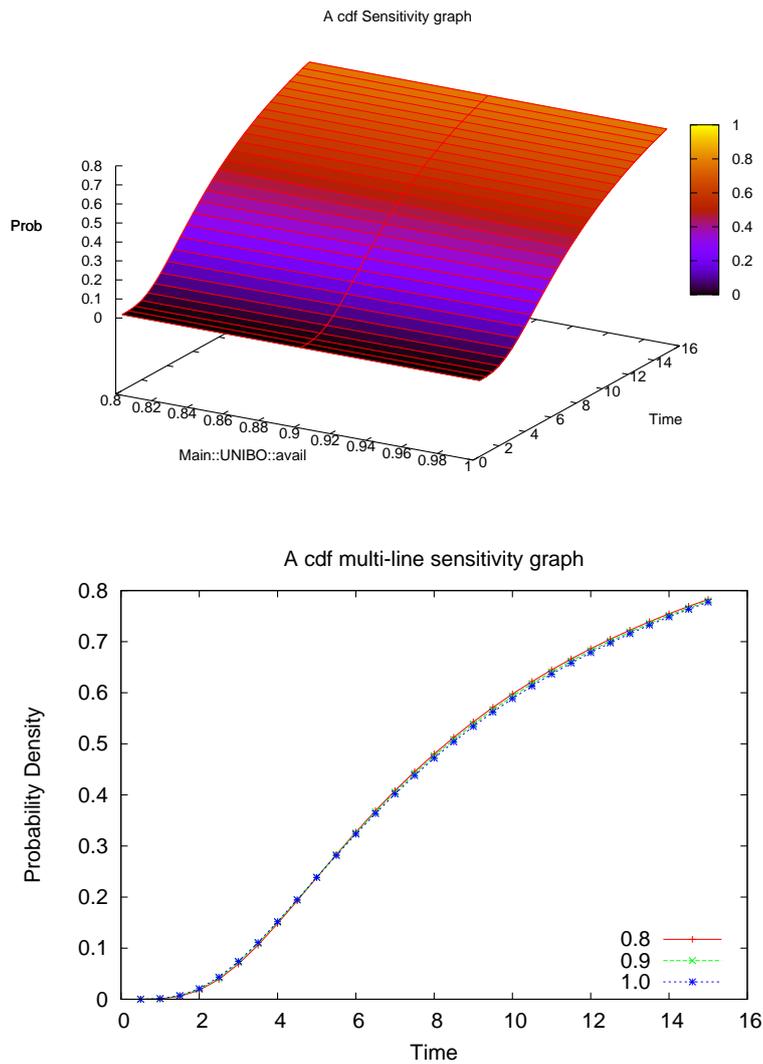


Figure 71: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-5-cdf.pdf and Main::UNIBO::avail-5-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

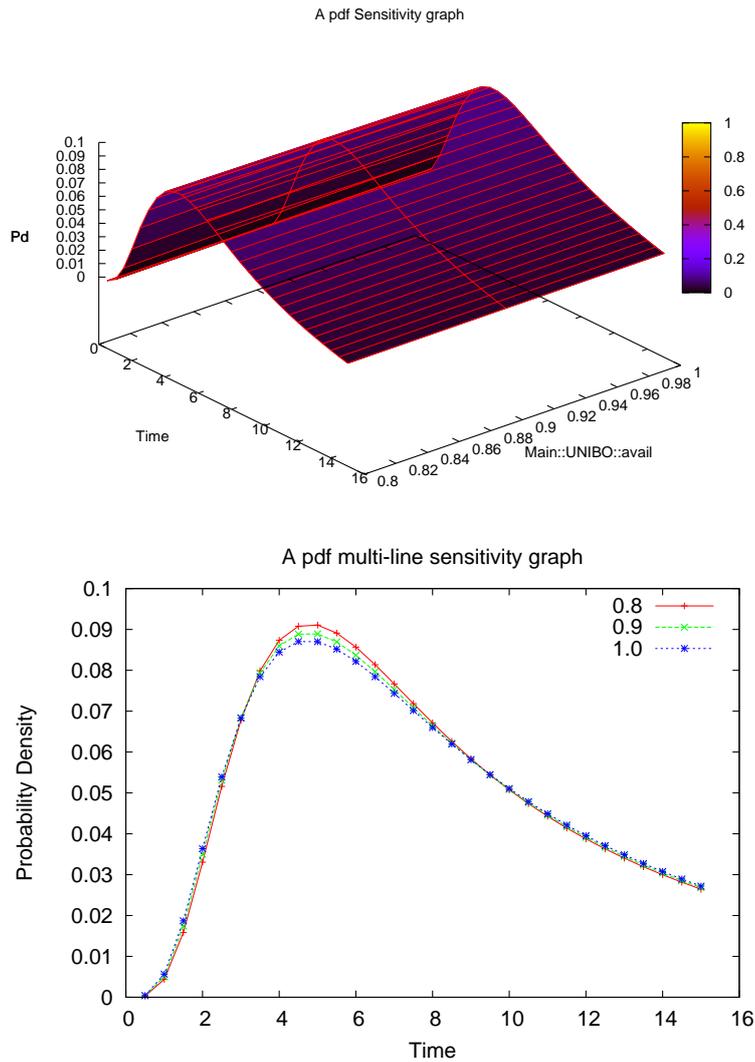


Figure 72: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-5-pdf.pdf and Main::UNIBO::avail-5-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

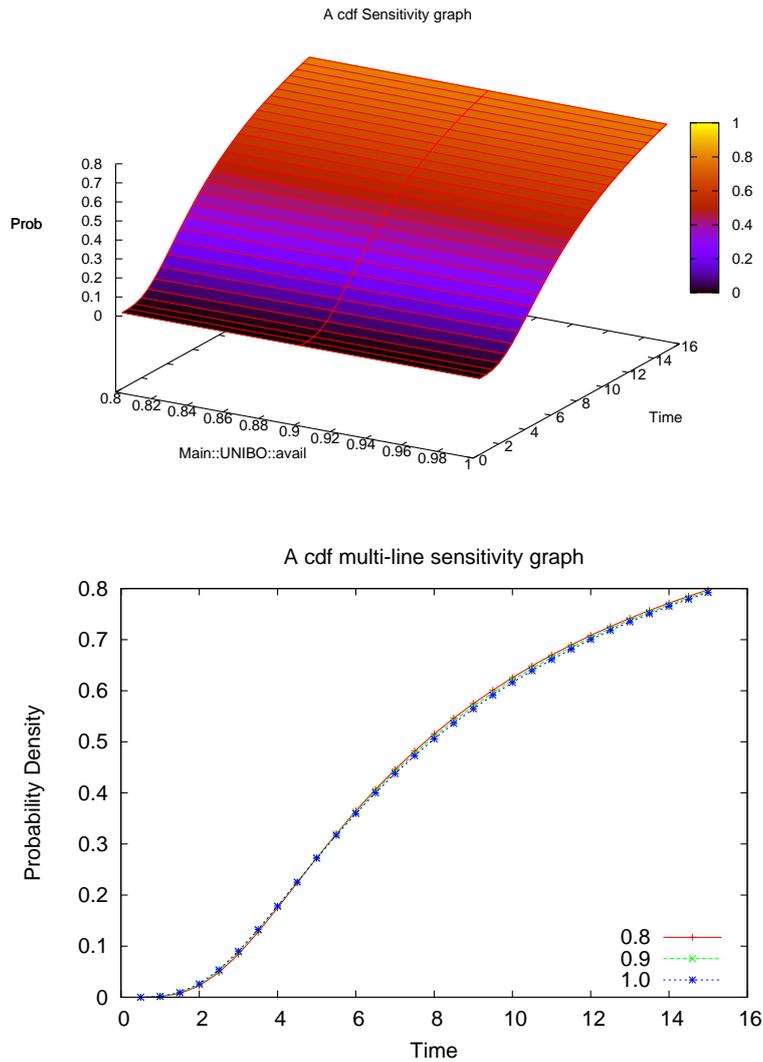


Figure 73: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-6-cdf.pdf and Main::UNIBO::avail-5-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

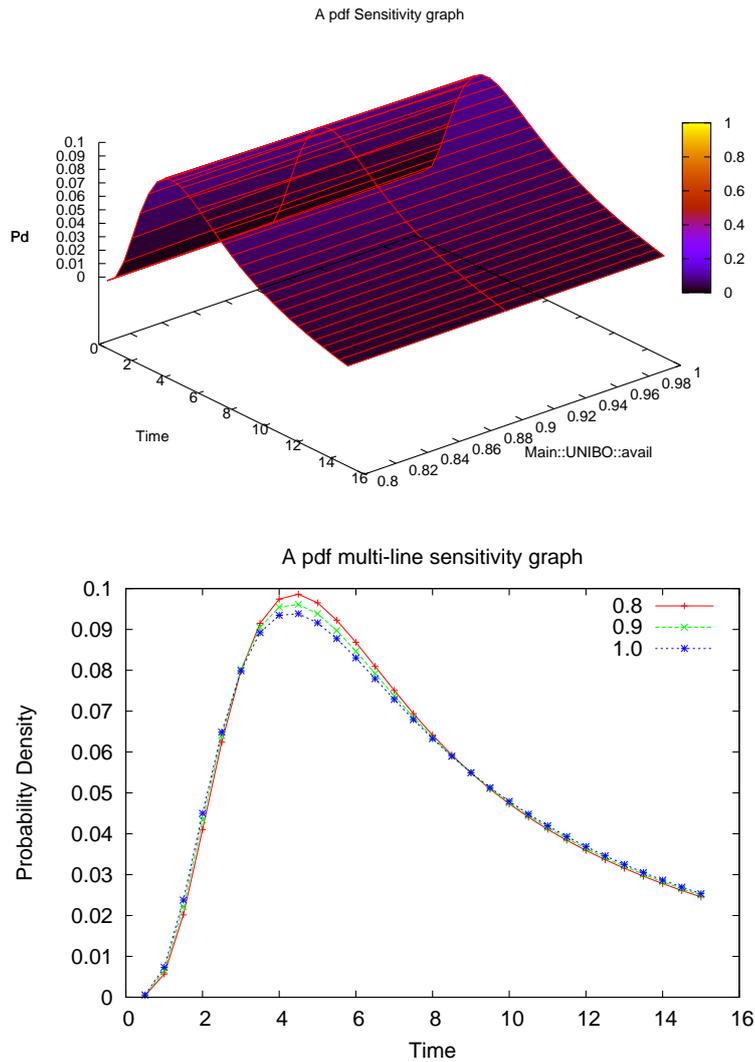


Figure 74: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-6-pdf.pdf and Main::UNIBO::avail-5-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

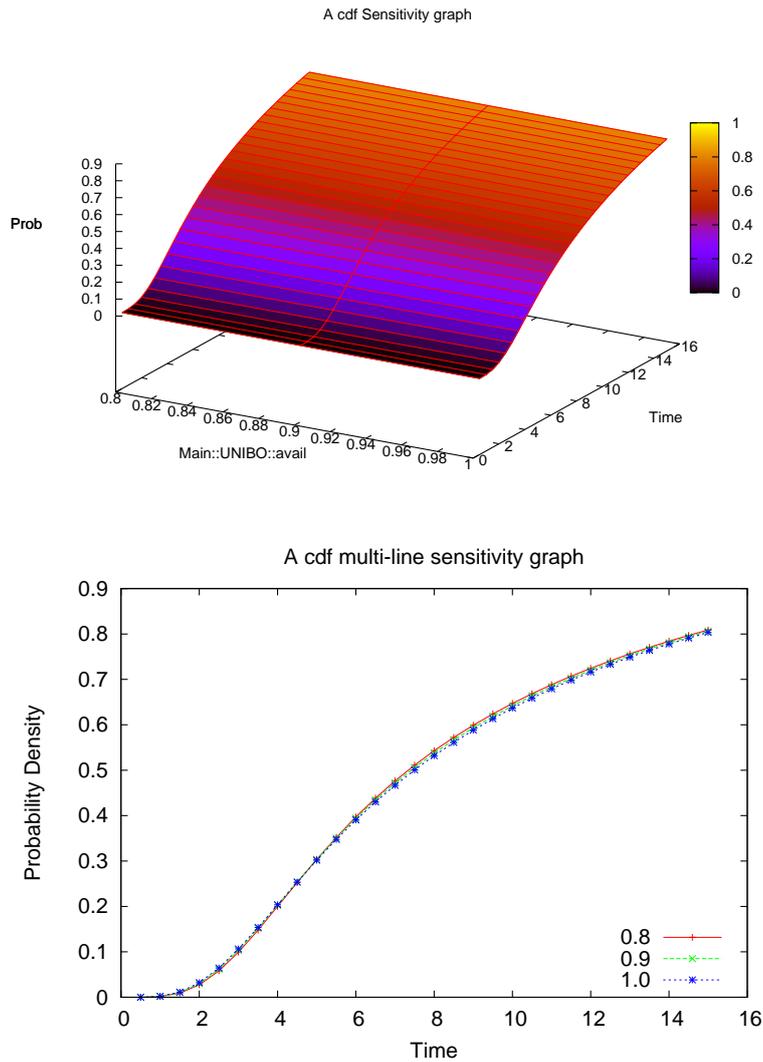


Figure 75: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-7-cdf.pdf and Main::UNIBO::avail-5-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

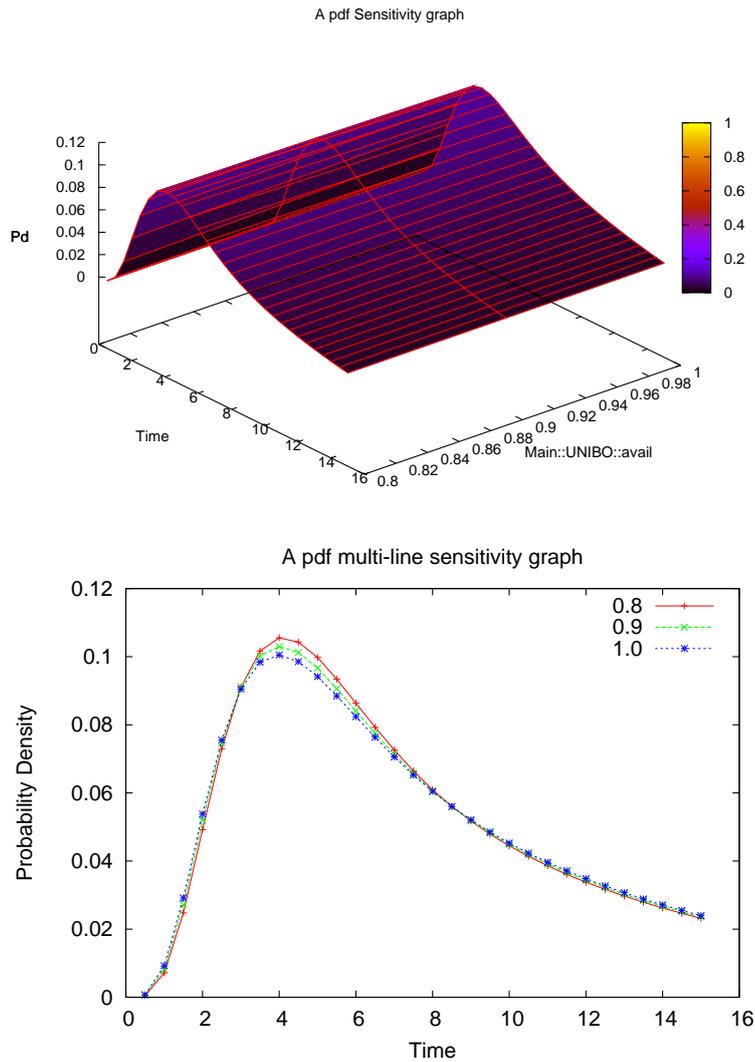


Figure 76: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-5-7-pdf.pdf and Main::UNIBO::avail-5-7-pdf-multi.pdf

## 2.7 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__HARRY__Idle`

`Main__Upload = Main__UNIBO__UPLOAD__Idle`

`Main__Download = Main__UEDIN__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

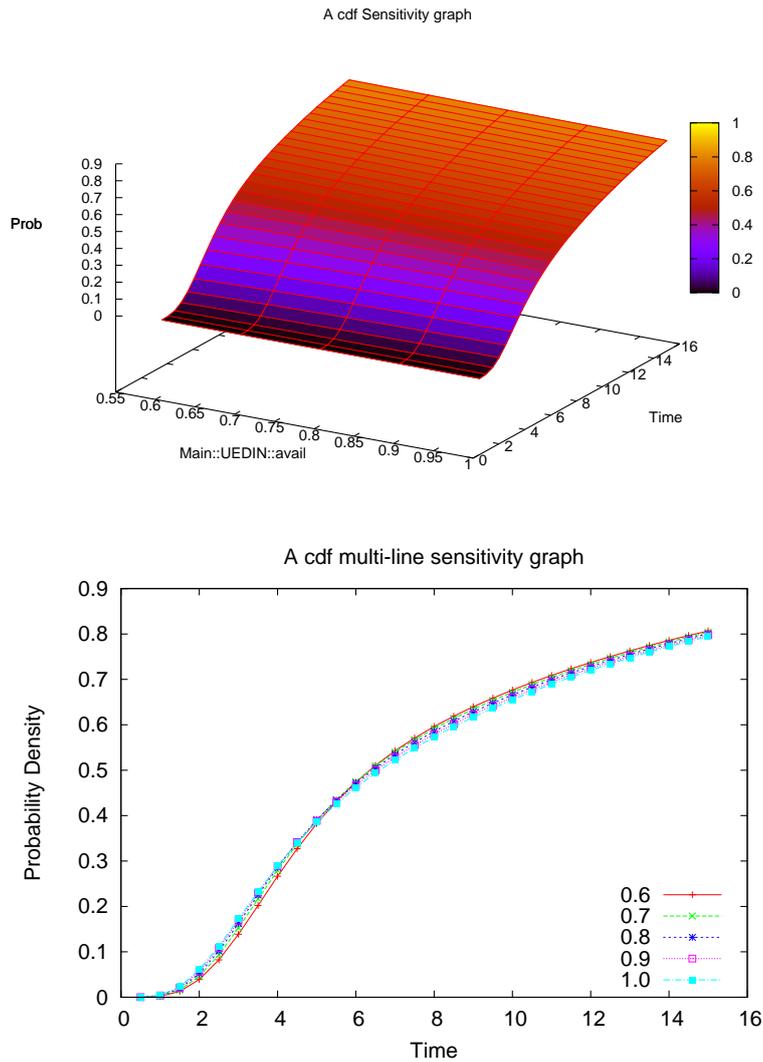


Figure 77: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-6-0-cdf.pdf and Main::UEDIN::avail-6-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

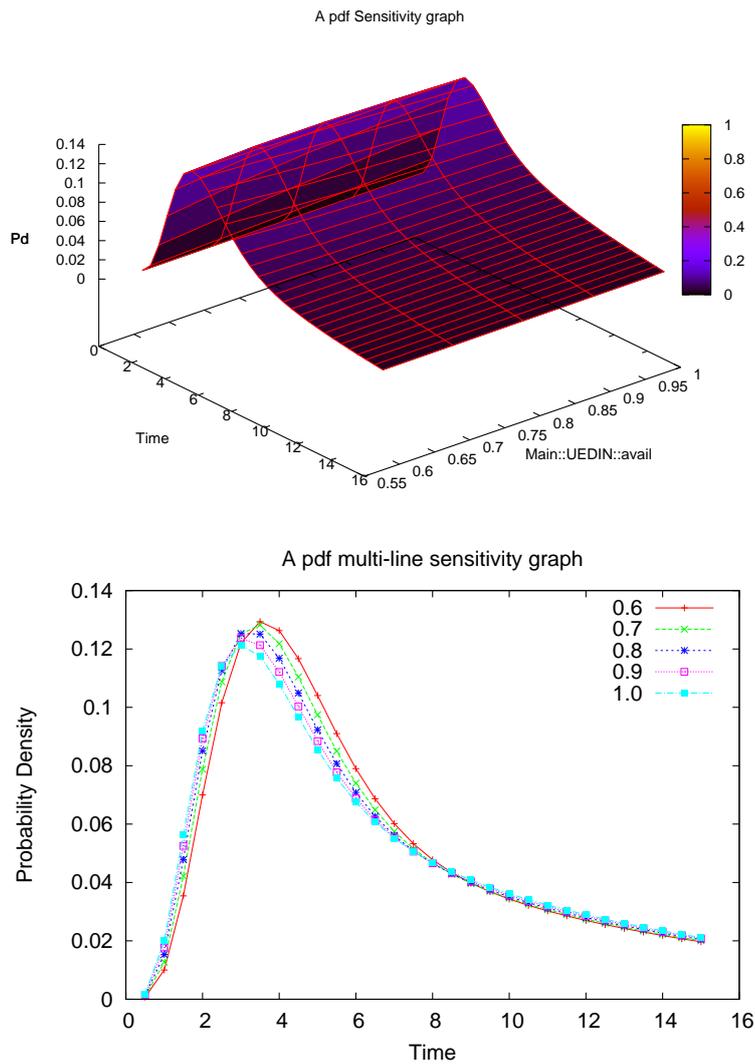


Figure 78: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-6-0-pdf.pdf and Main::UEDIN::avail-6-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

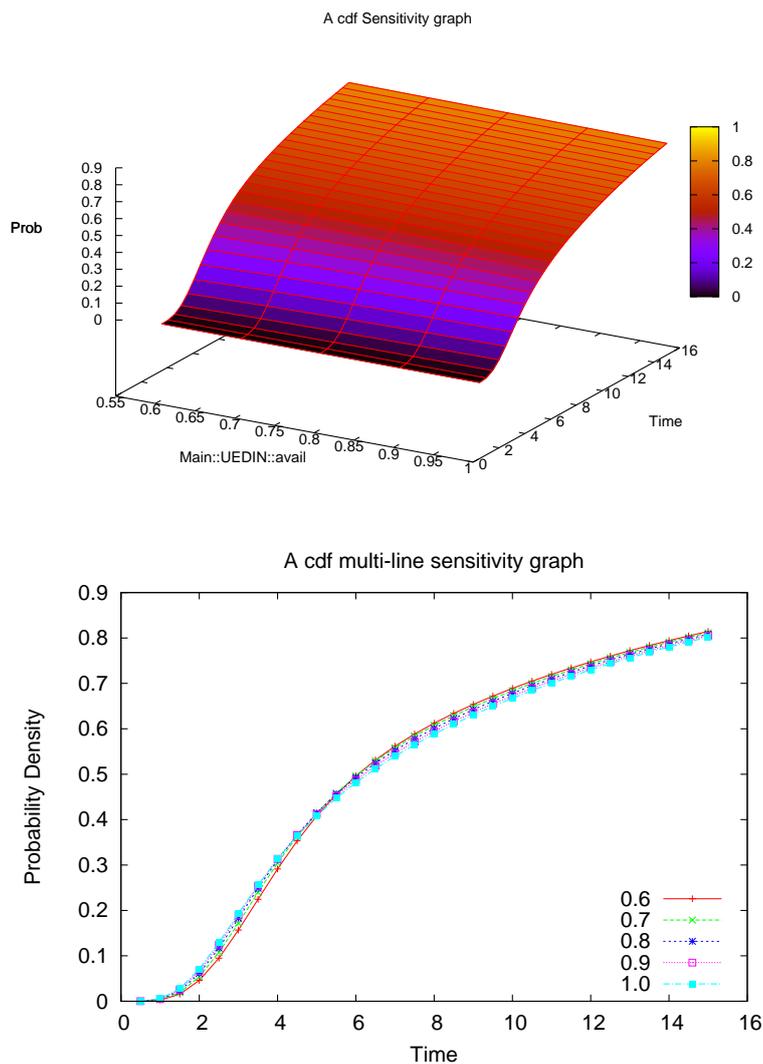


Figure 79: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-6-1-cdf.pdf and Main::UEDIN::avail-6-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

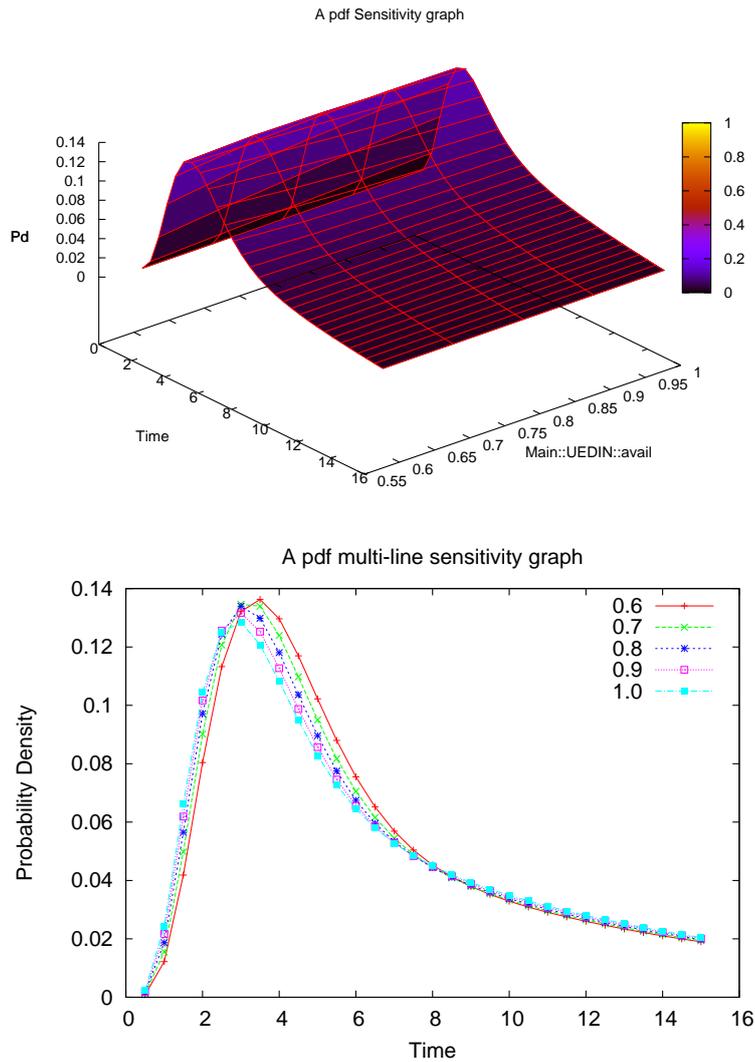


Figure 80: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-6-1-pdf.pdf and Main::UEDIN::avail-6-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

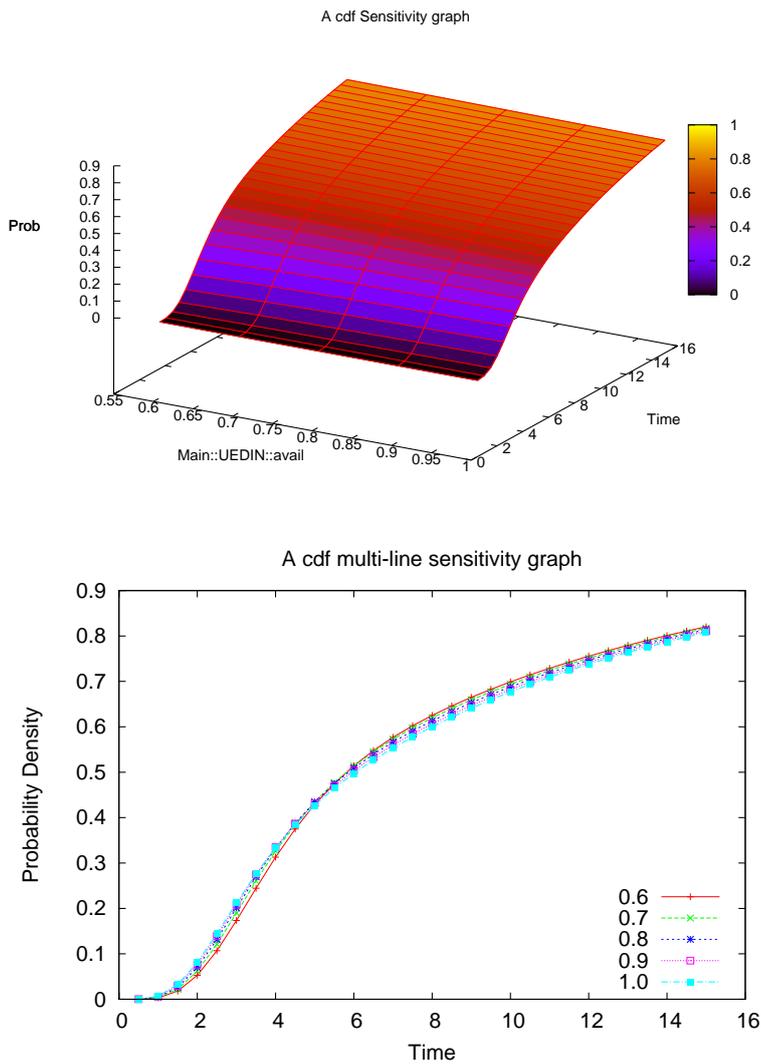


Figure 81: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-6-2-cdf.pdf and Main::UEDIN::avail-6-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

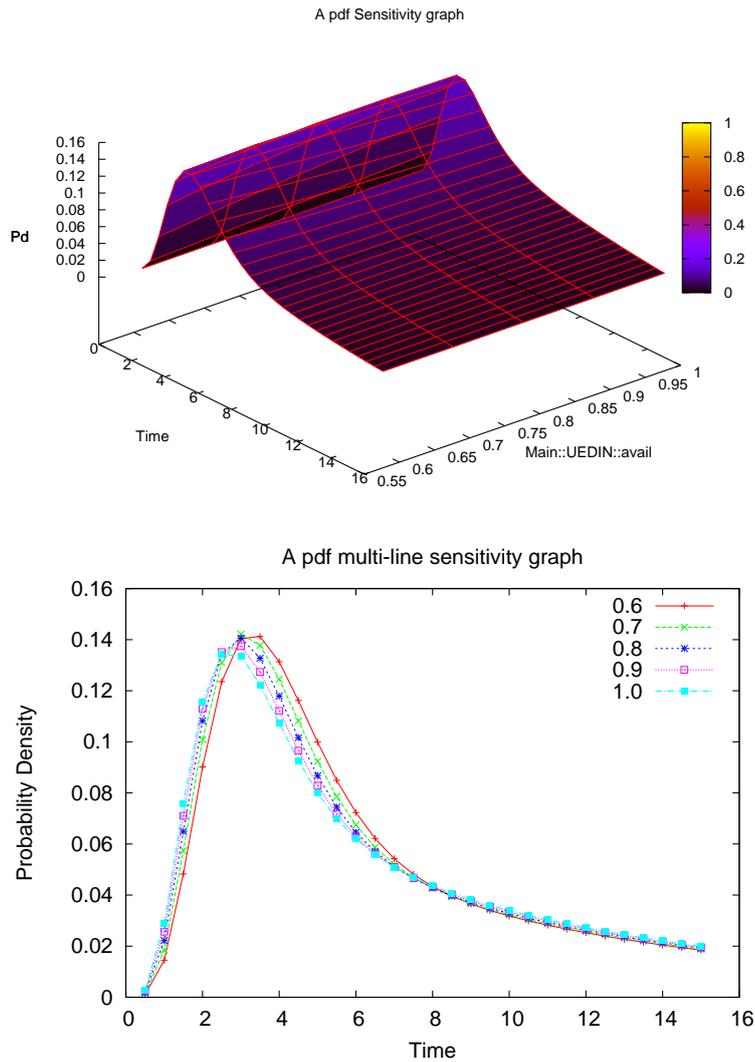


Figure 82: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-6-2-pdf.pdf and Main::UEDIN::avail-6-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

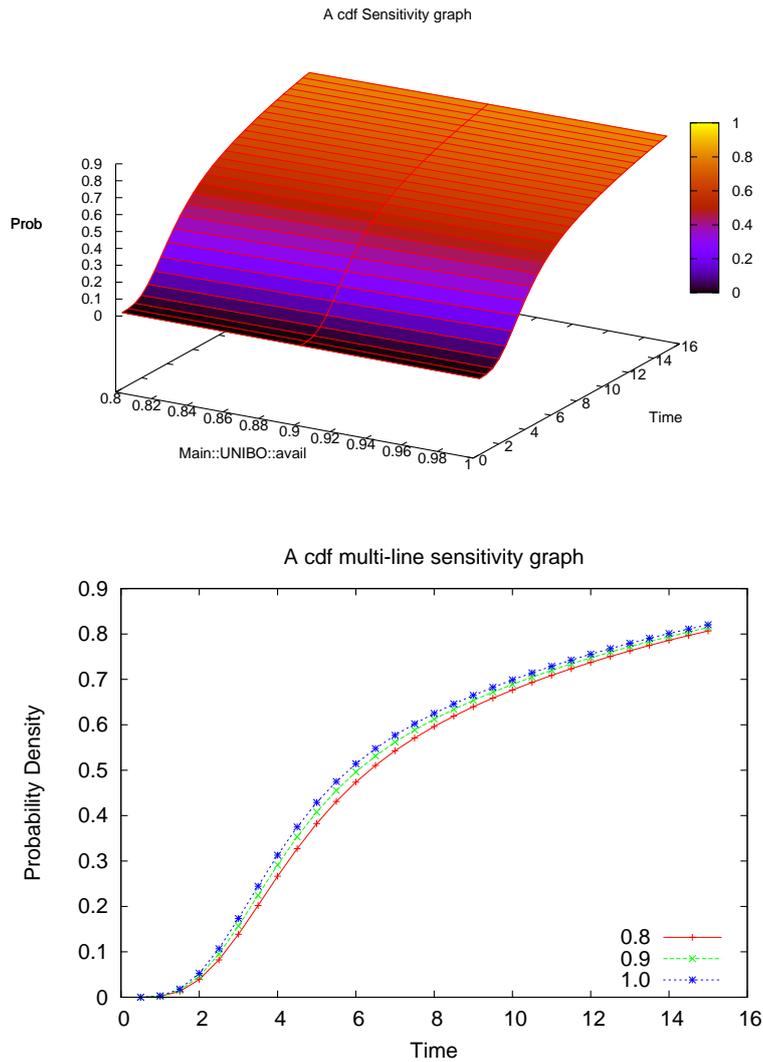


Figure 83: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-3-cdf.pdf and Main::UNIBO::avail-6-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

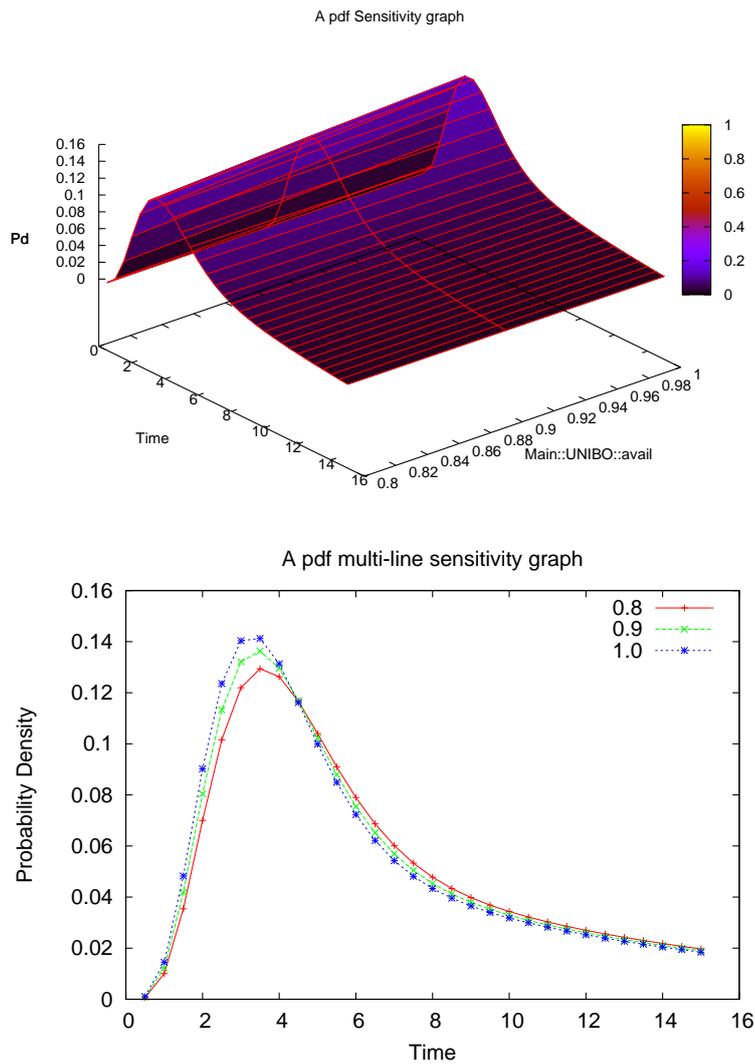


Figure 84: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-3-pdf.pdf and Main::UNIBO::avail-6-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

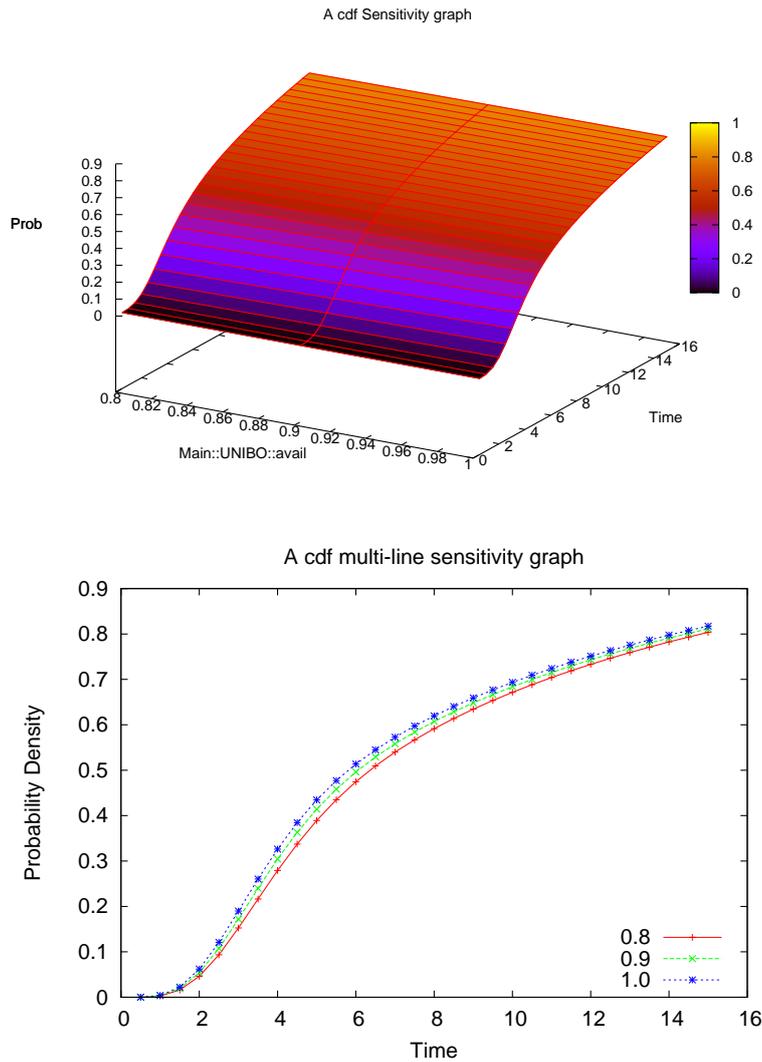


Figure 85: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-4-cdf.pdf and Main::UNIBO::avail-6-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

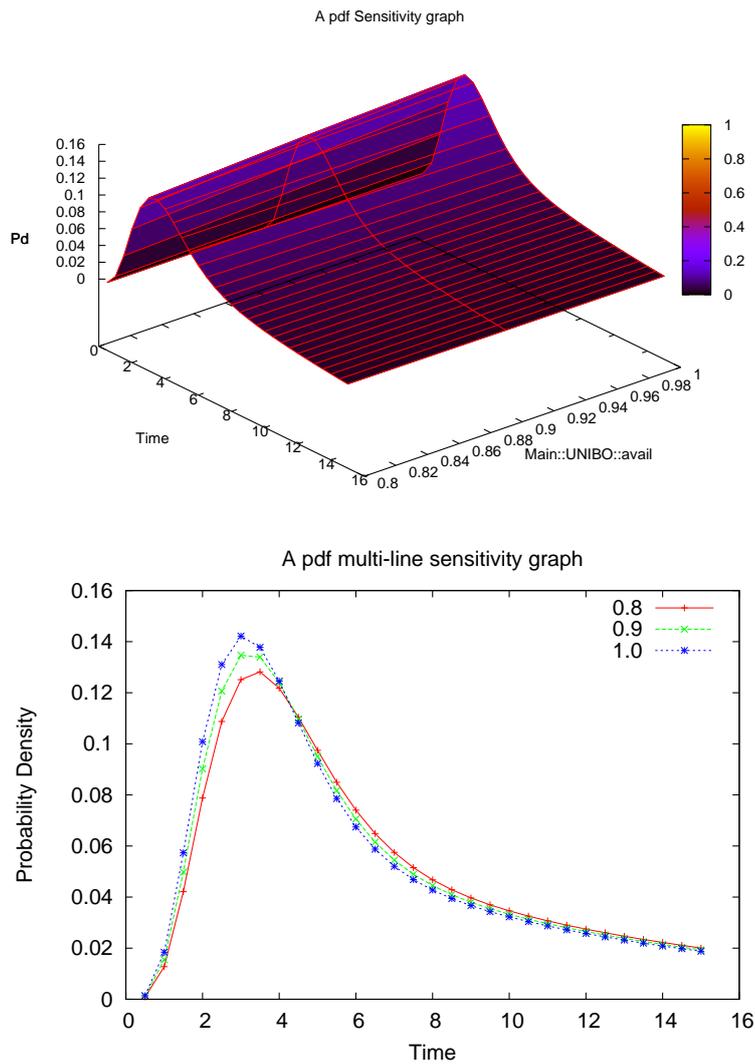


Figure 86: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-4-pdf.pdf and Main::UNIBO::avail-6-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

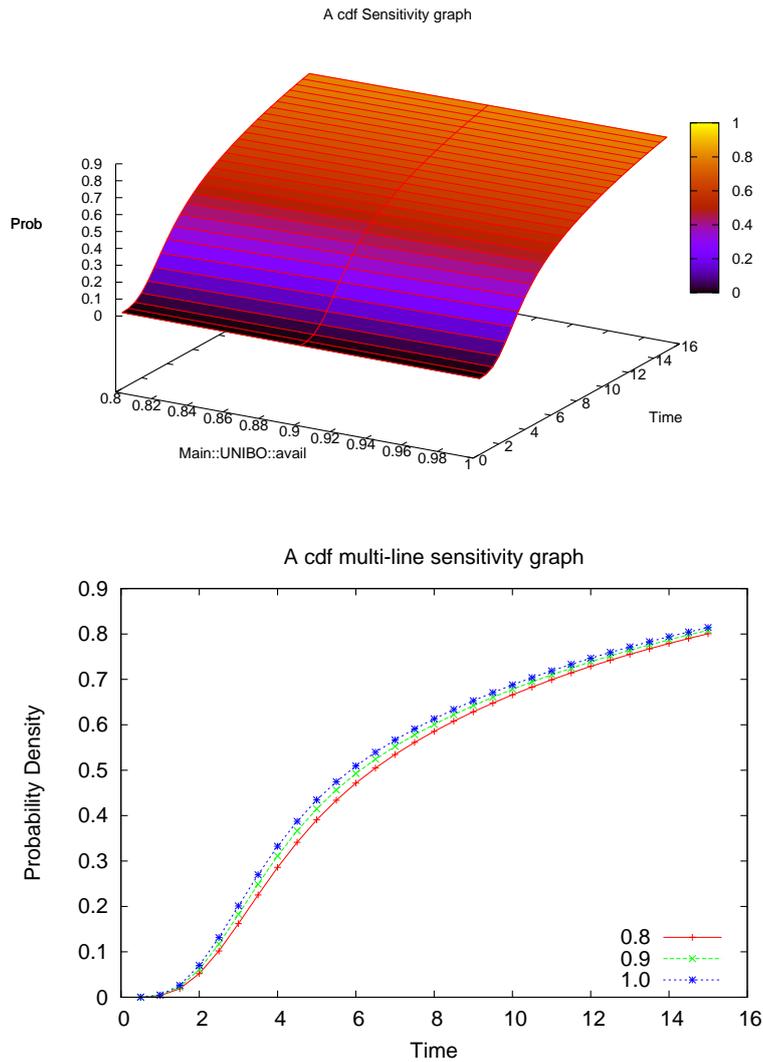


Figure 87: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-5-cdf.pdf and Main::UNIBO::avail-6-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

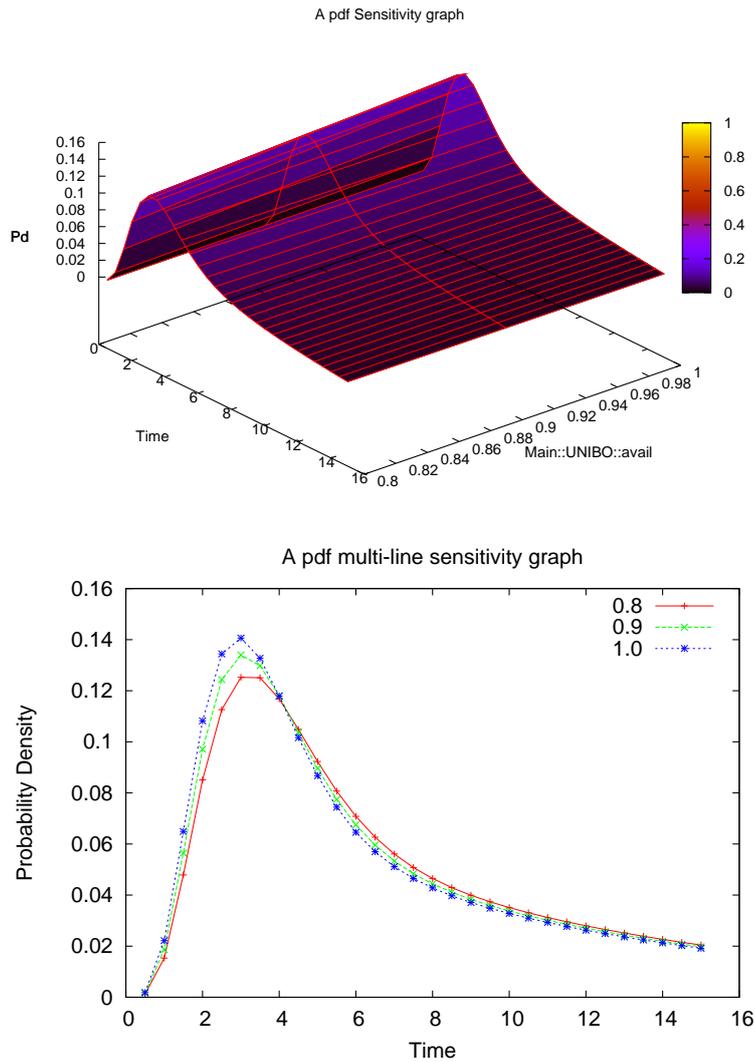


Figure 88: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-5-pdf.pdf and Main::UNIBO::avail-6-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

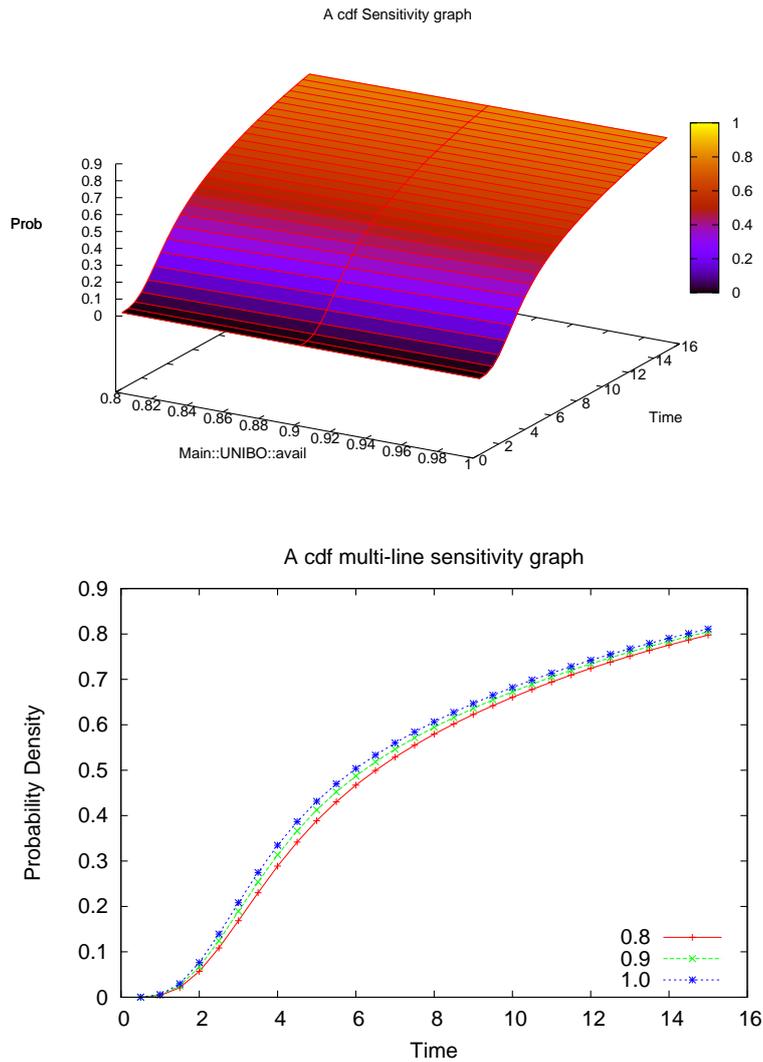


Figure 89: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-6-cdf.pdf and Main::UNIBO::avail-6-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

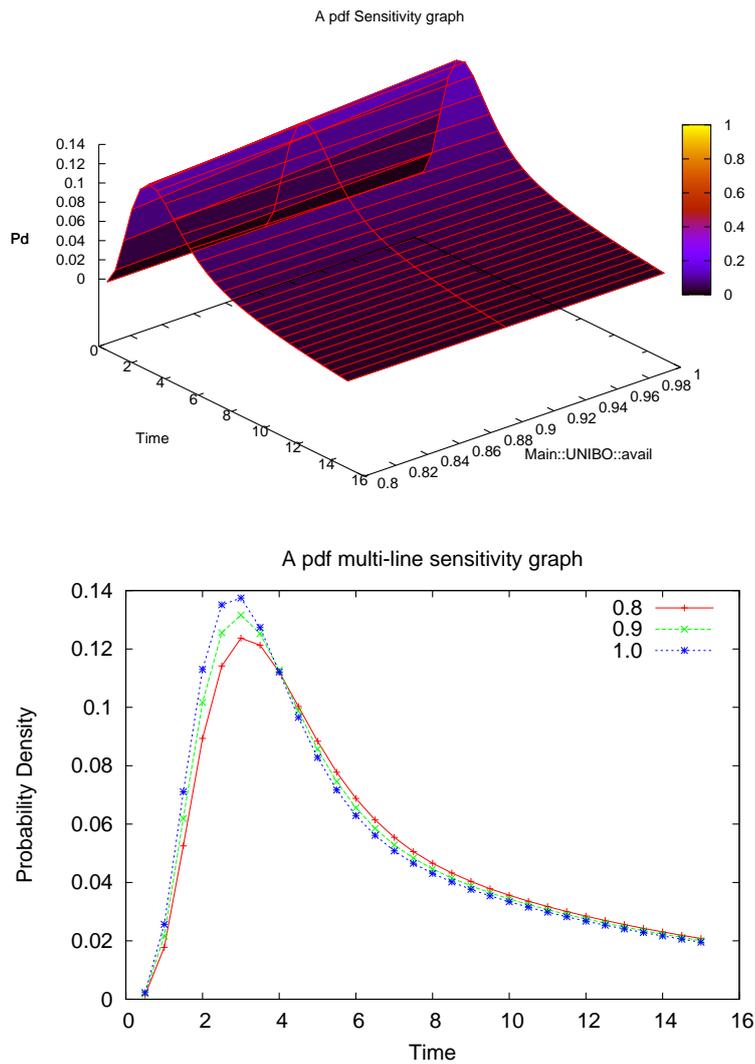


Figure 90: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-6-pdf.pdf and Main::UNIBO::avail-6-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

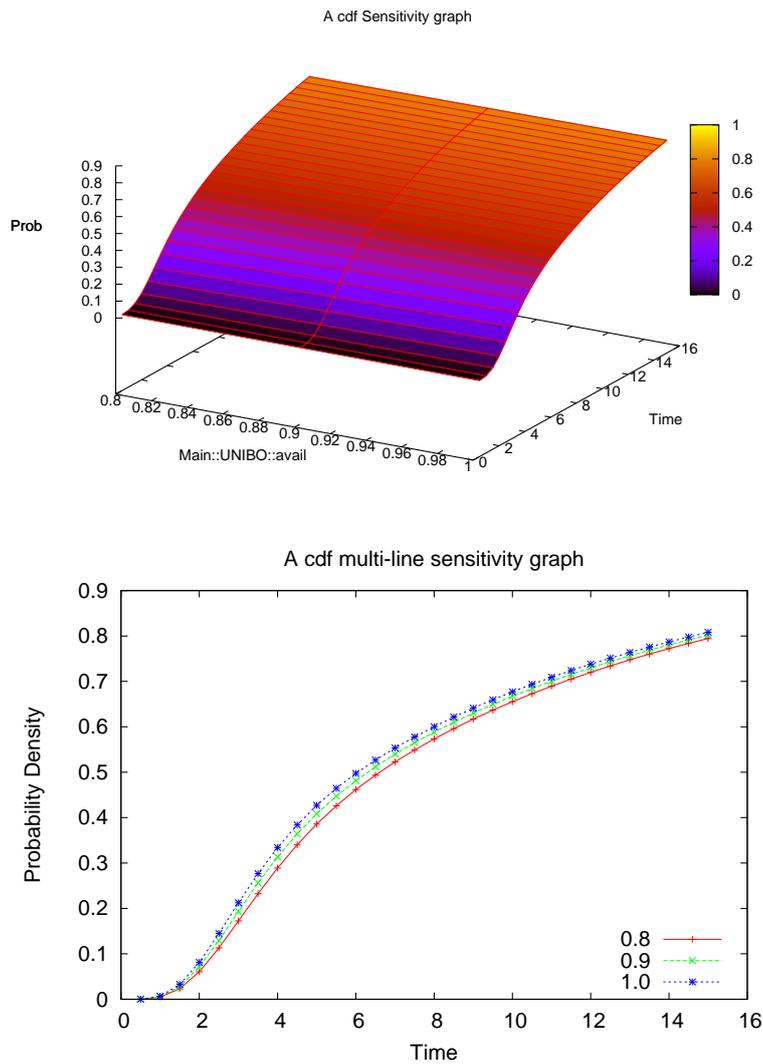


Figure 91: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-7-cdf.pdf and Main::UNIBO::avail-6-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

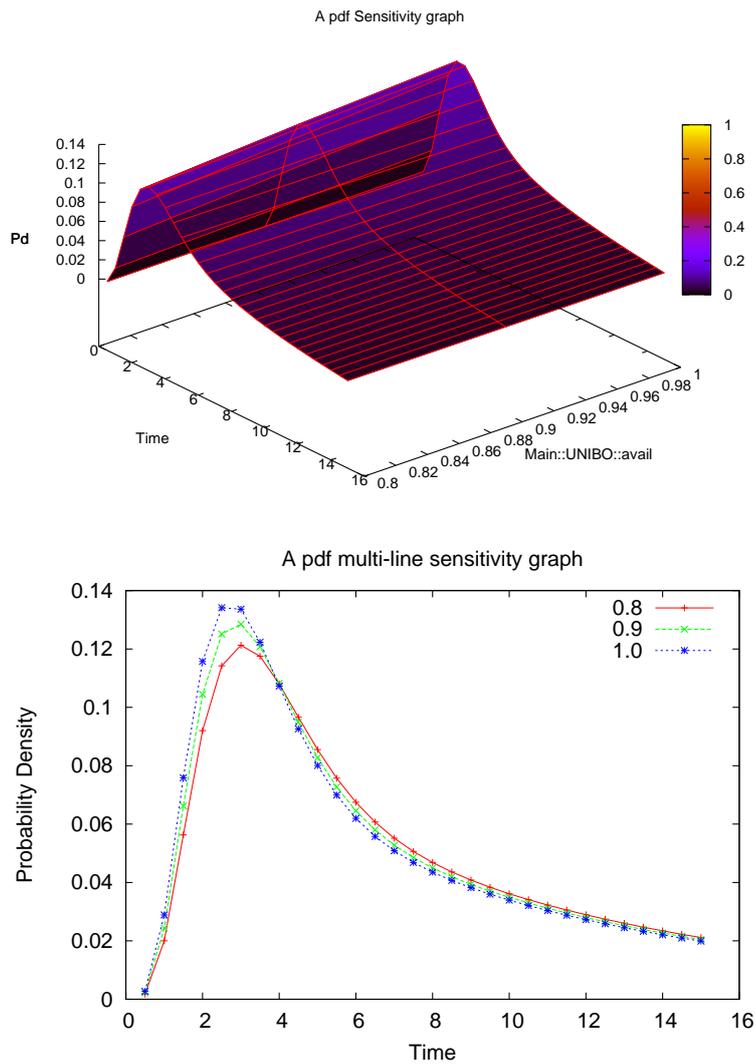


Figure 92: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-6-7-pdf.pdf and Main::UNIBO::avail-6-7-pdf-multi.pdf

## 2.8 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__HARRY__Idle  
Main__Upload = Main__UNIBO__UPLOAD__Idle  
Main__Download = Main__LMU__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

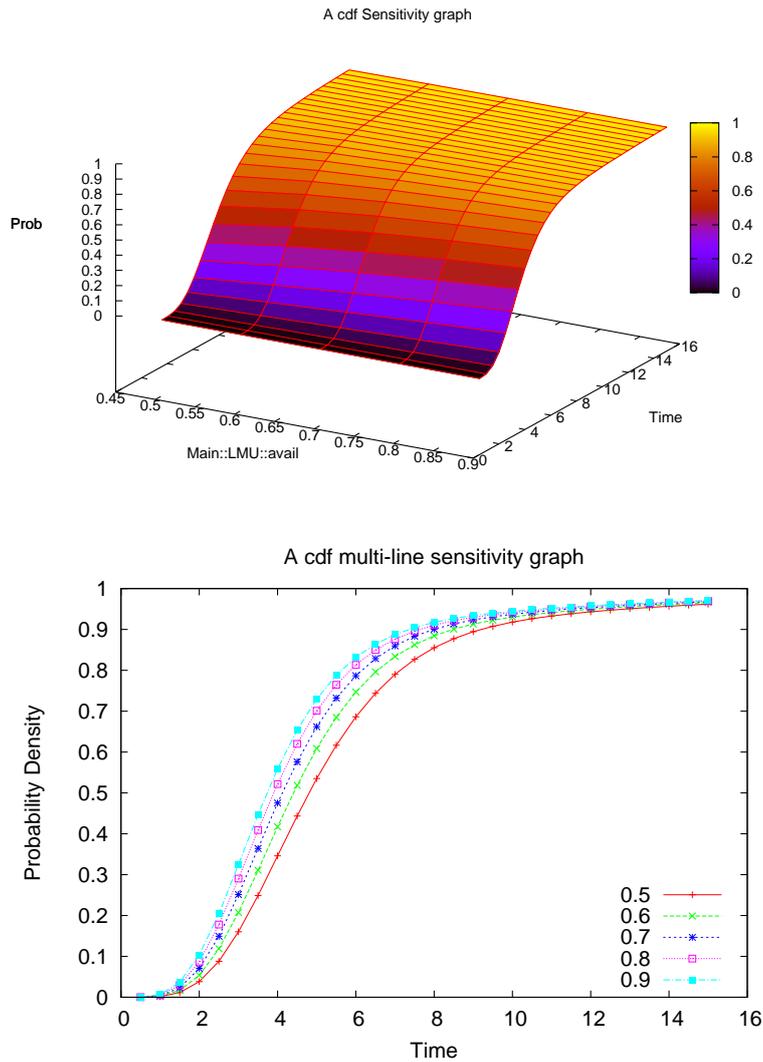


Figure 93: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-7-0-cdf.pdf and Main::LMU::avail-7-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

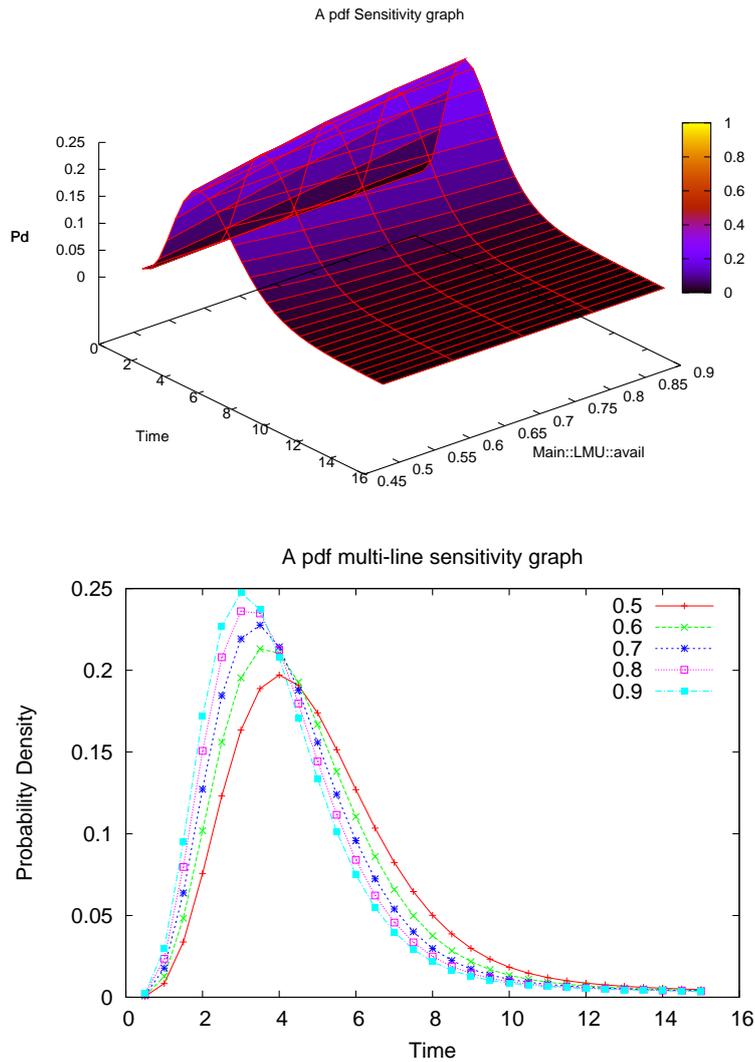


Figure 94: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-7-0-pdf.pdf and Main::LMU::avail-7-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

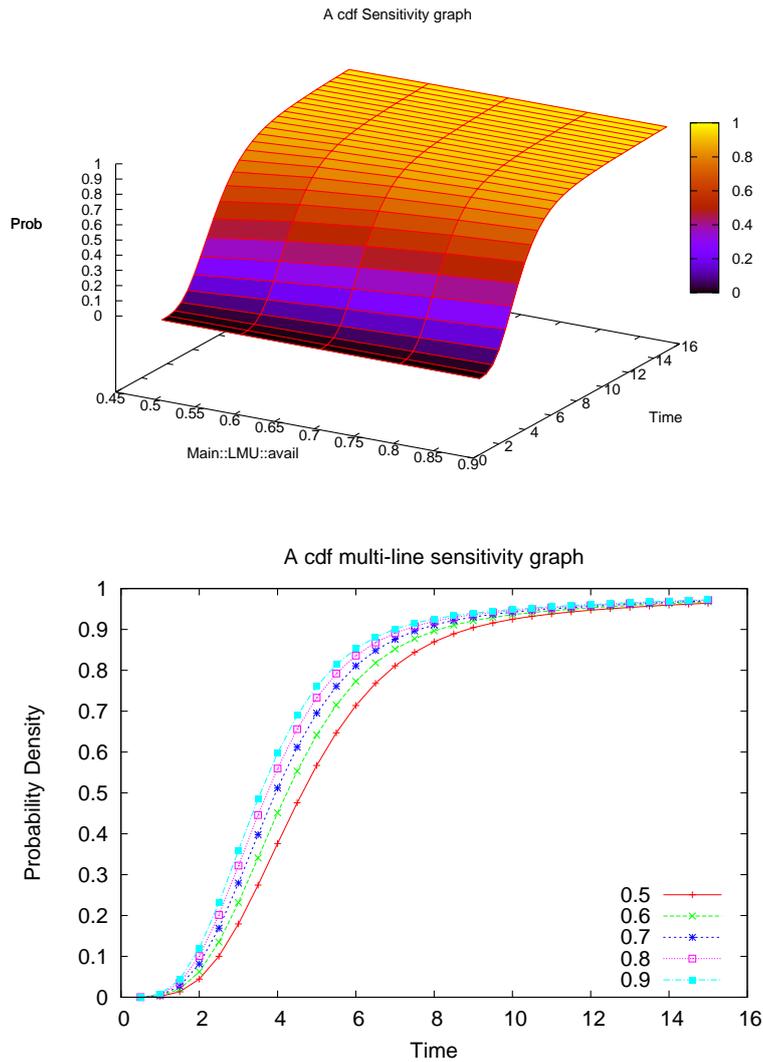


Figure 95: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-7-1-cdf.pdf and Main::LMU::avail-7-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

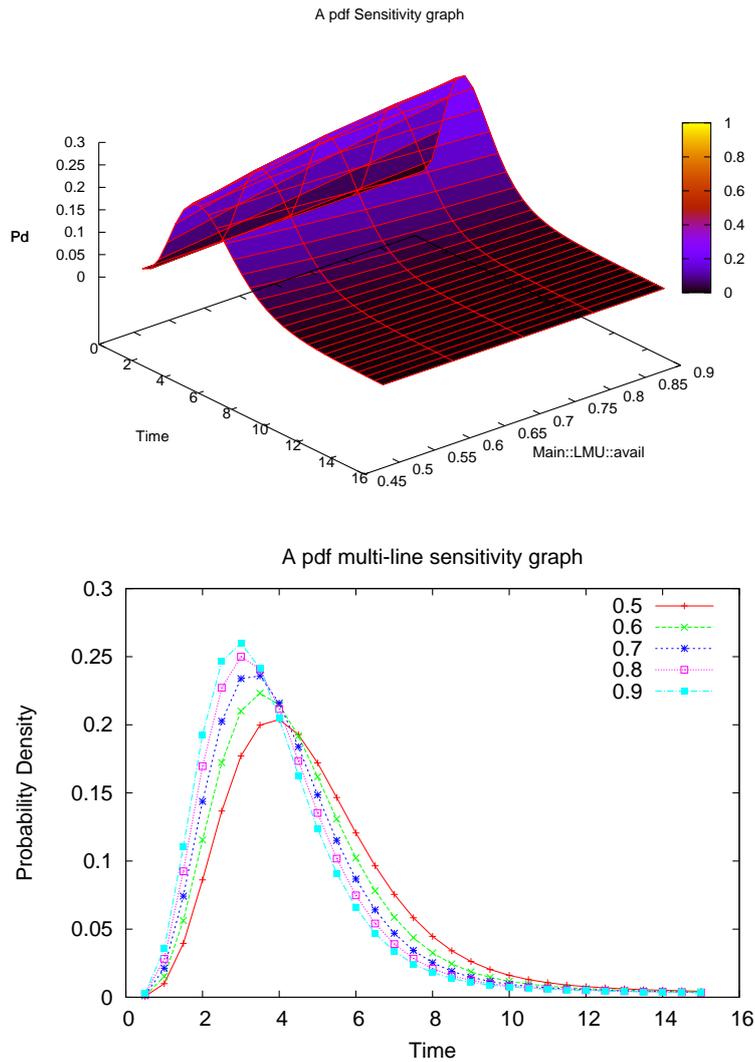


Figure 96: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-7-1-pdf.pdf and Main::LMU::avail-7-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

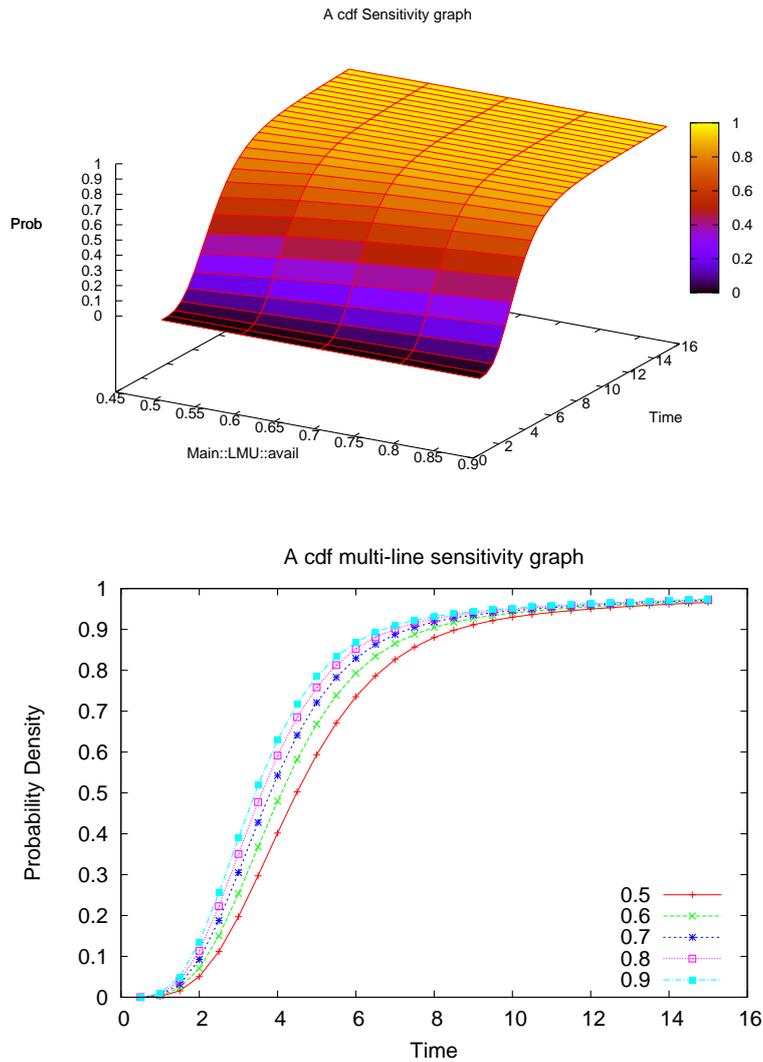


Figure 97: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-7-2-cdf.pdf and Main::LMU::avail-7-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

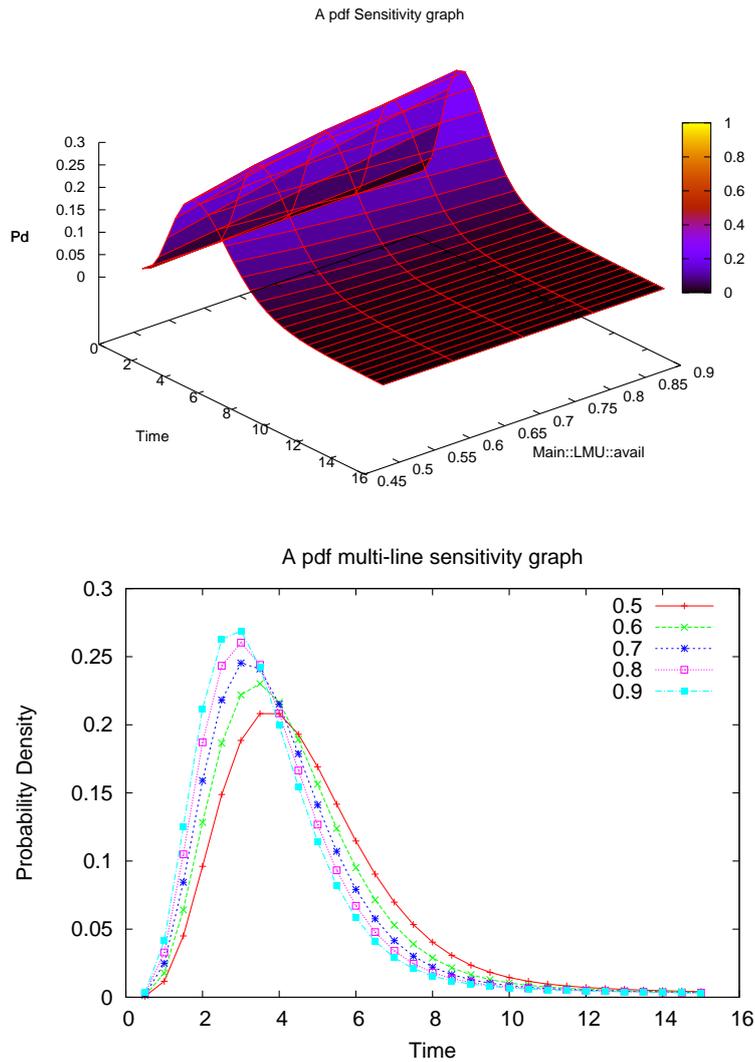


Figure 98: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-7-2-pdf.pdf and Main::LMU::avail-7-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

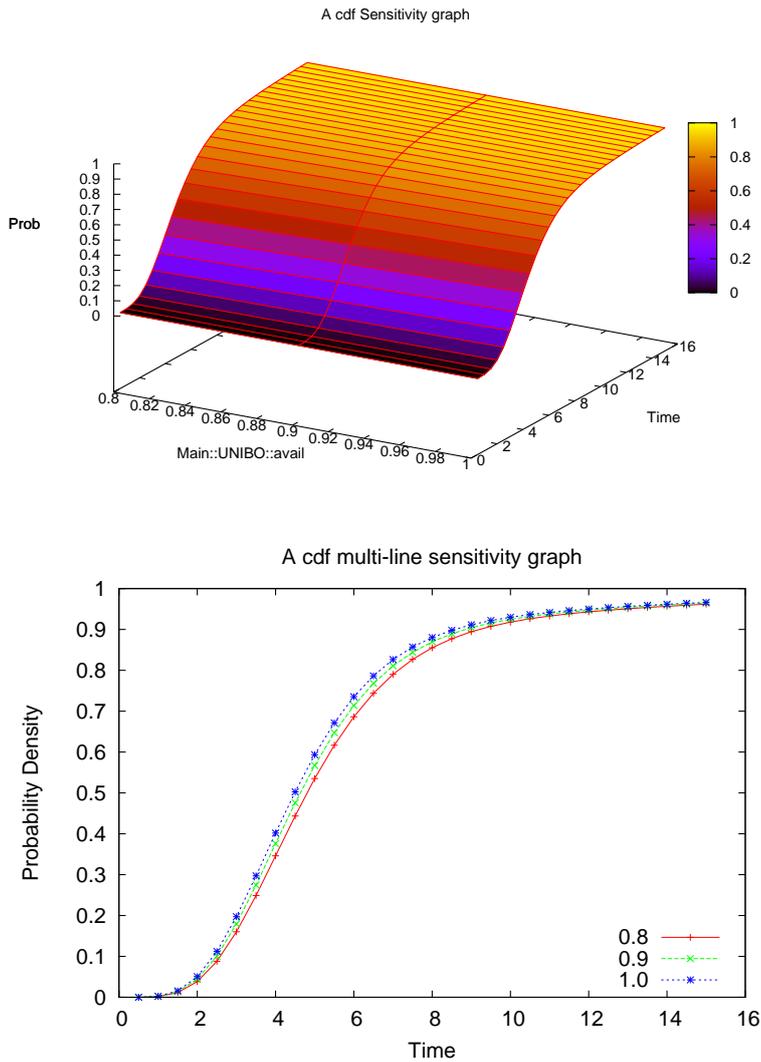


Figure 99: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-3-cdf.pdf and Main::UNIBO::avail-7-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

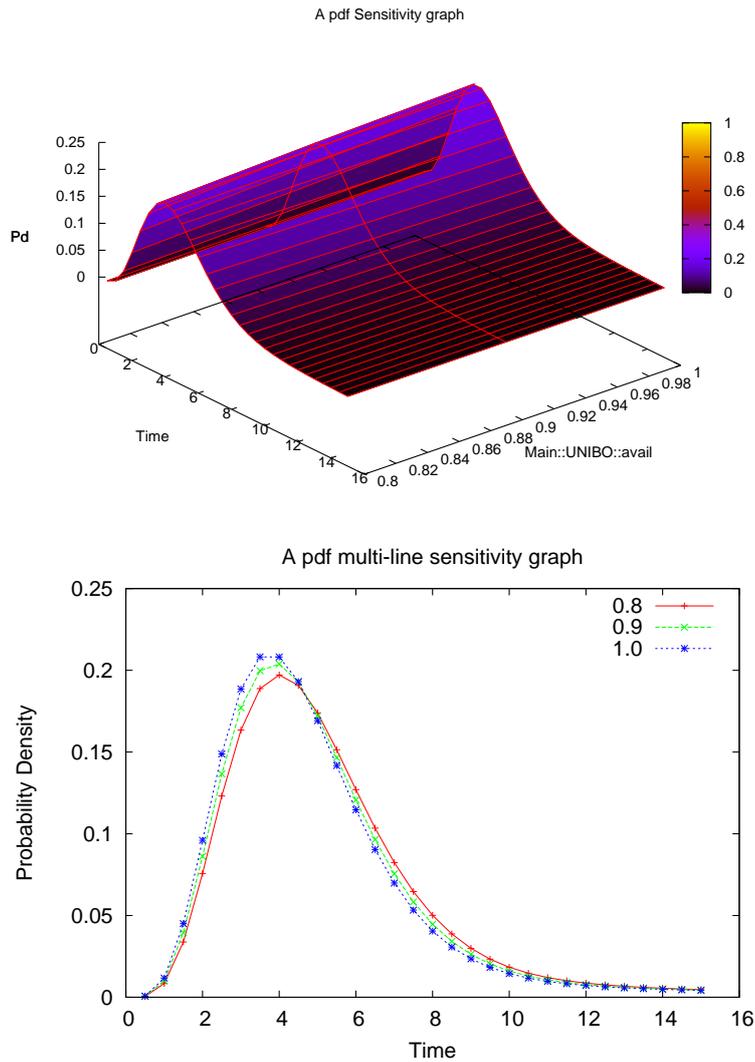


Figure 100: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-3-pdf.pdf and Main::UNIBO::avail-7-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

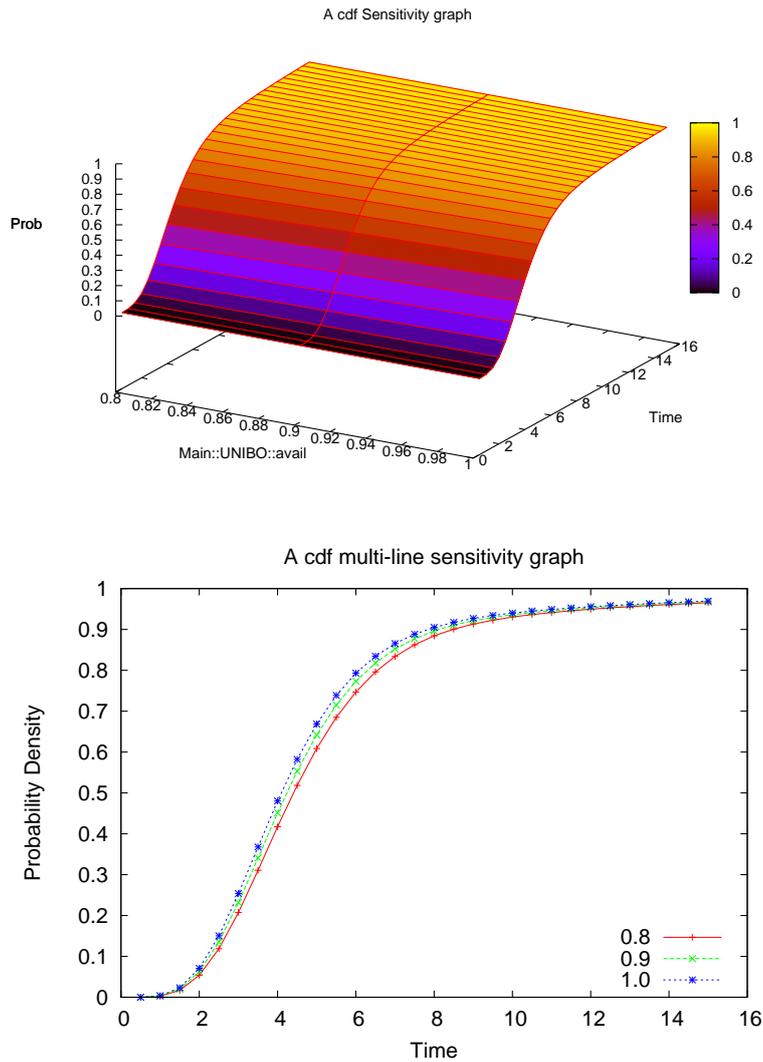


Figure 101: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-4-cdf.pdf and Main::UNIBO::avail-7-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

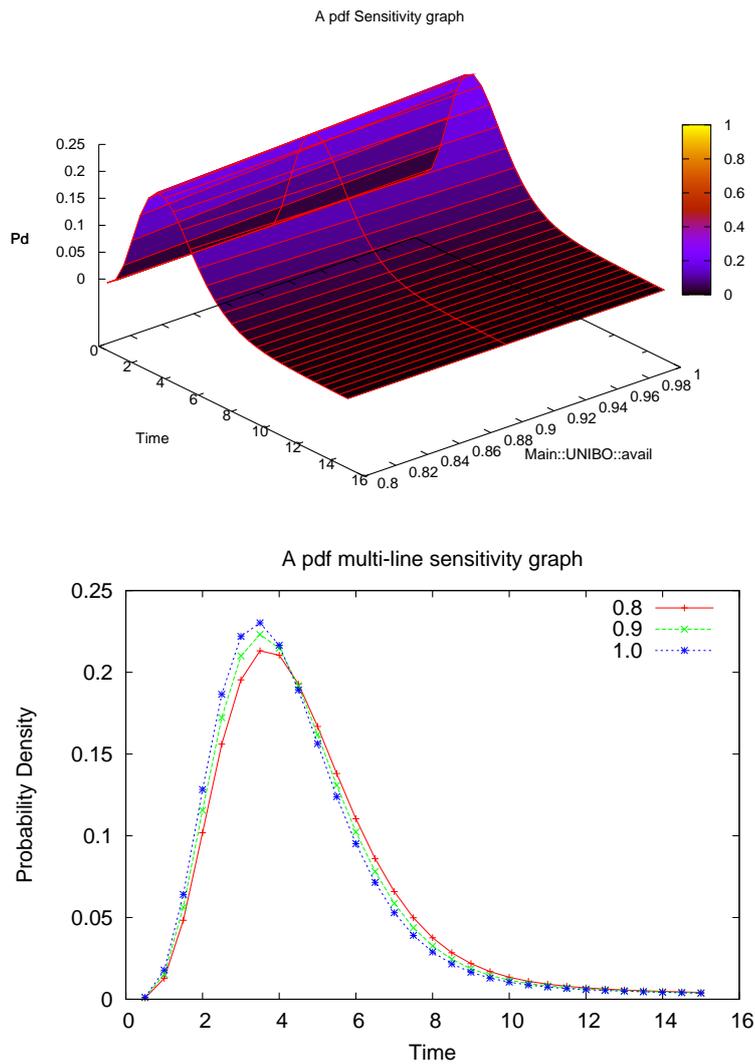


Figure 102: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-4-pdf.pdf and Main::UNIBO::avail-7-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

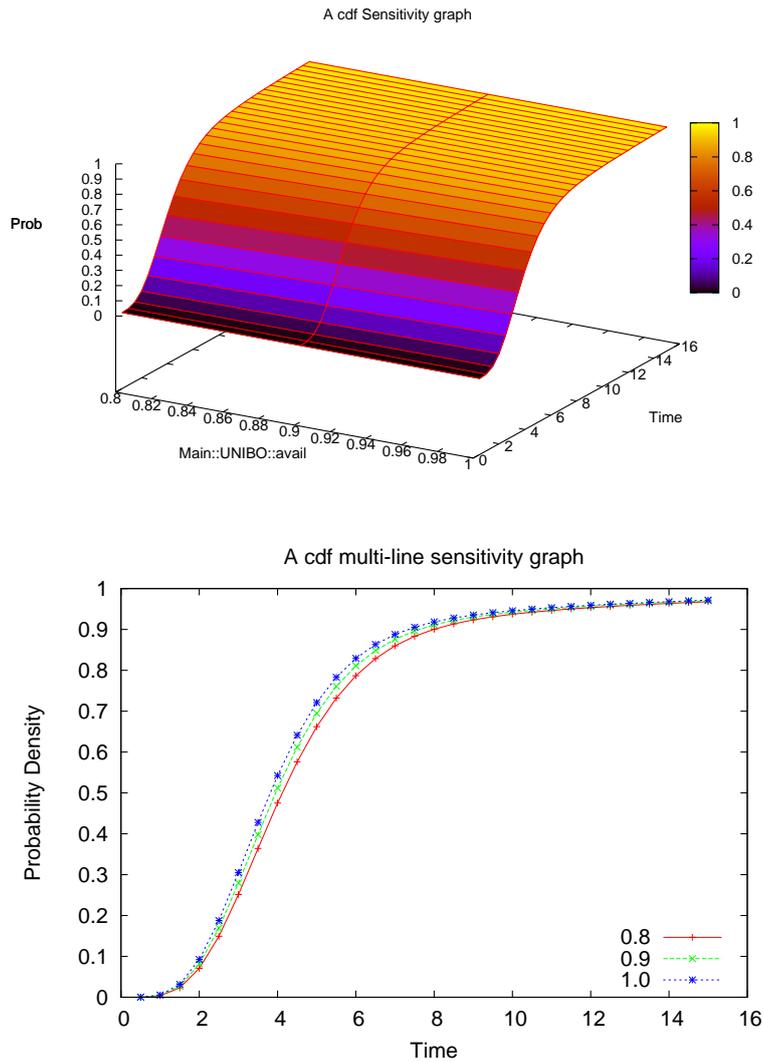


Figure 103: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-5-cdf.pdf and Main::UNIBO::avail-7-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

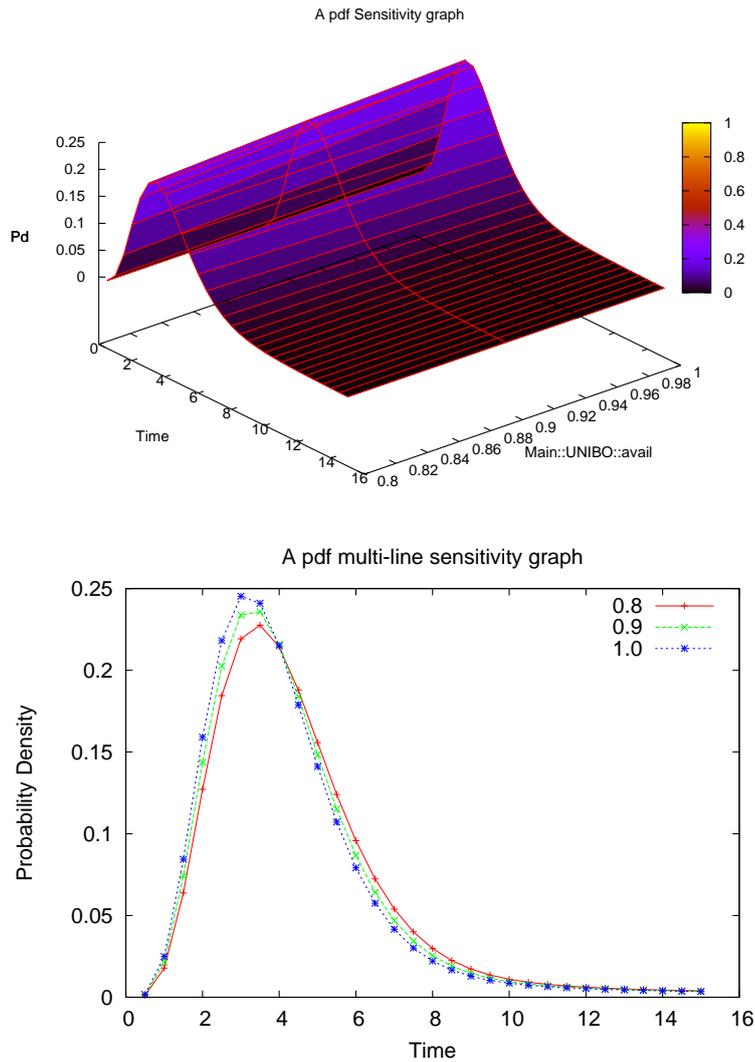


Figure 104: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-5-pdf.pdf and Main::UNIBO::avail-7-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

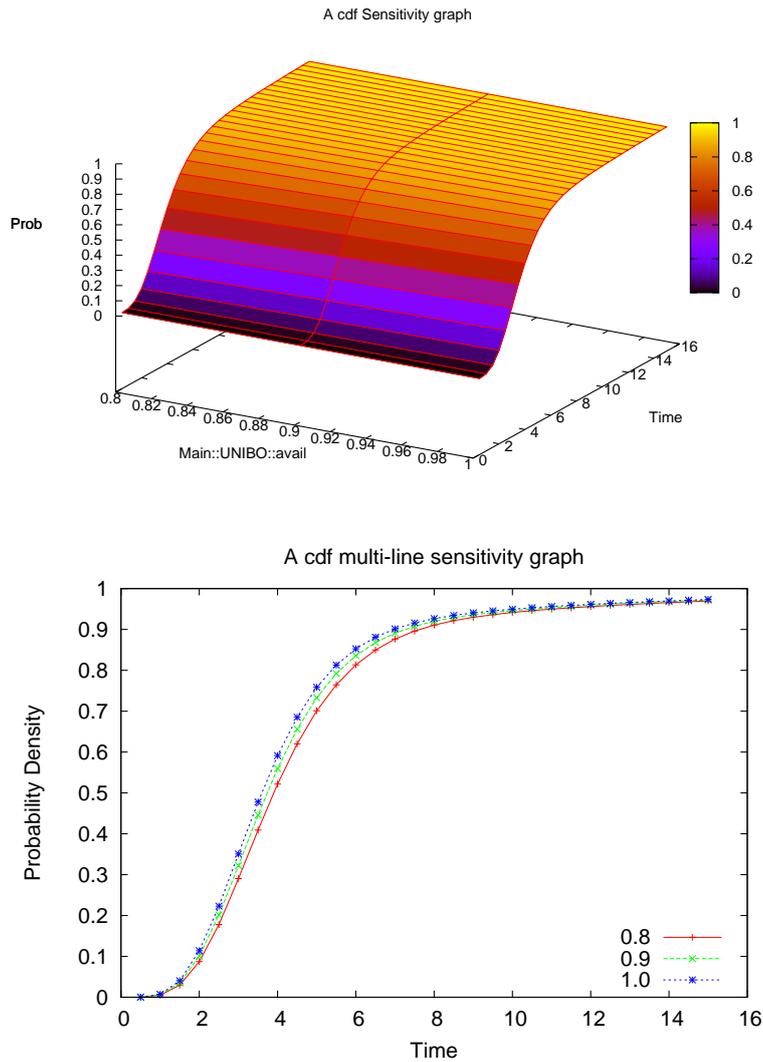


Figure 105: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-6-cdf.pdf and Main::UNIBO::avail-7-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

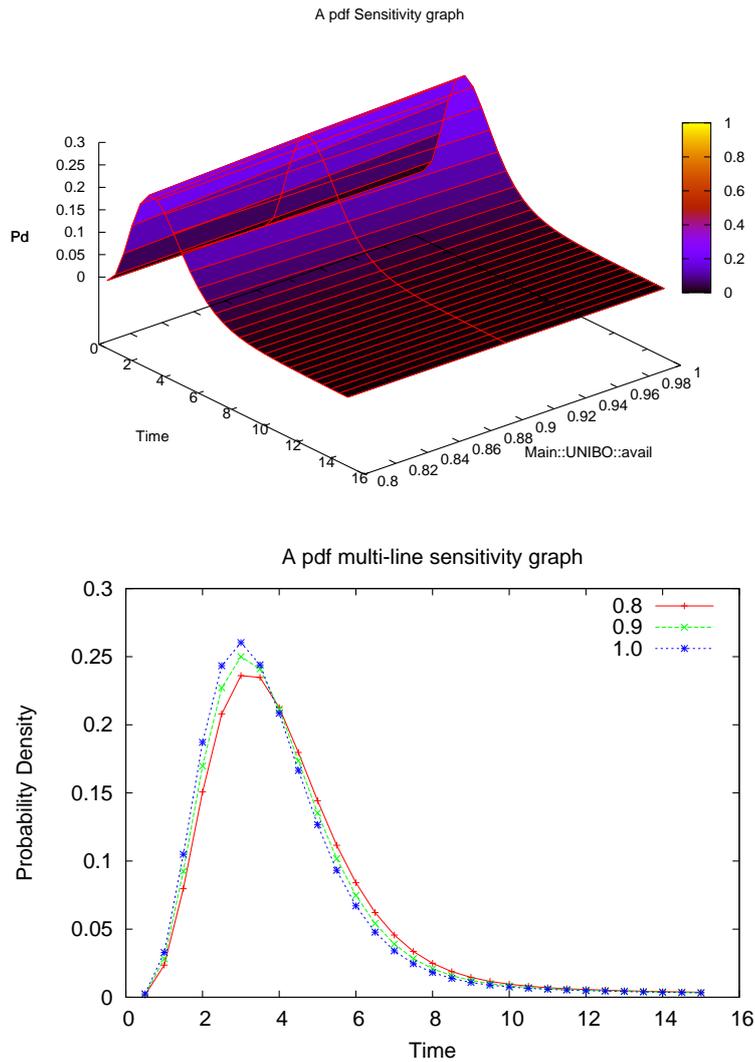


Figure 106: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-6-pdf.pdf and Main::UNIBO::avail-7-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

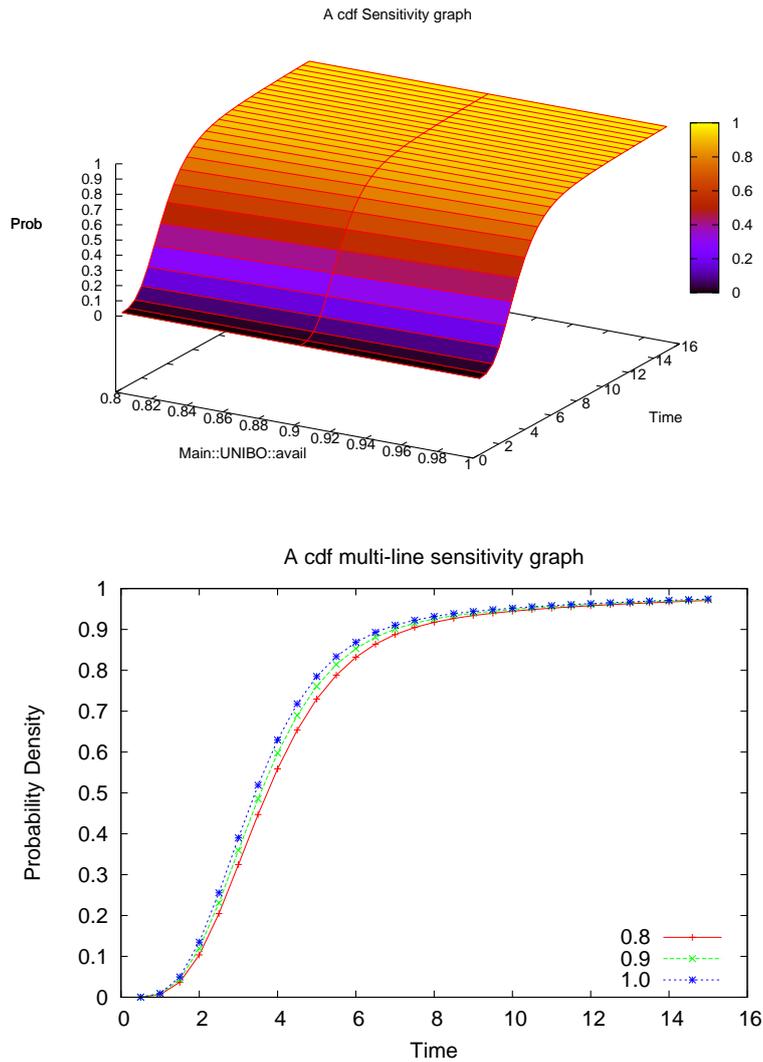


Figure 107: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-7-cdf.pdf and Main::UNIBO::avail-7-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

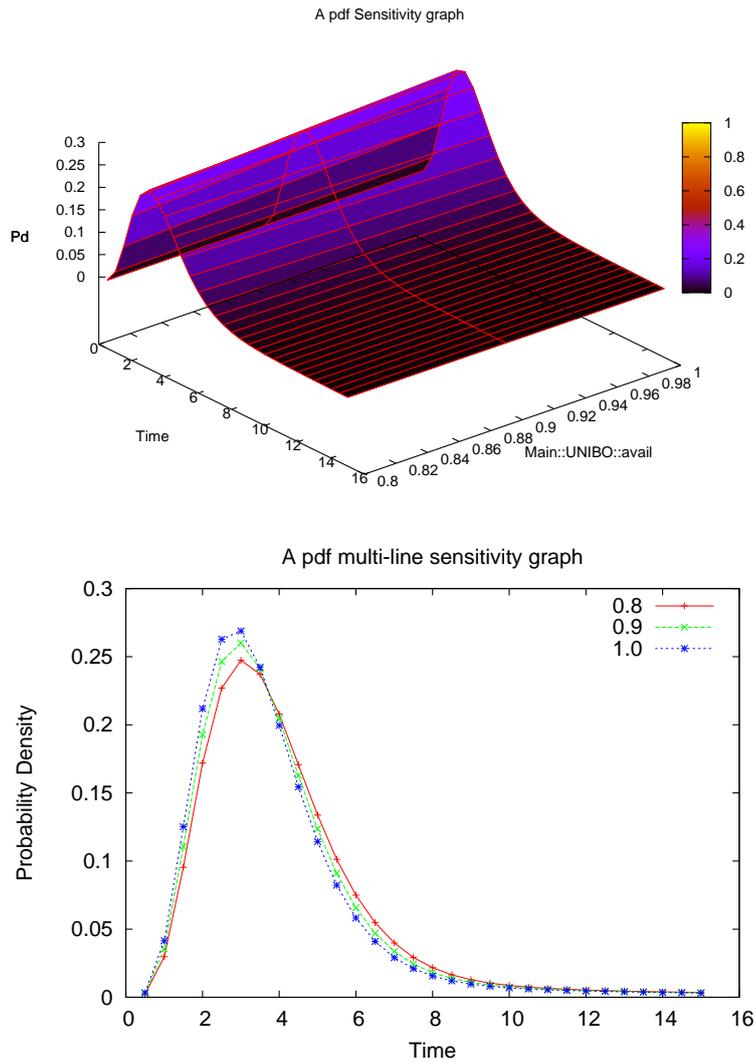


Figure 108: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-7-7-pdf.pdf and Main::UNIBO::avail-7-7-pdf-multi.pdf

## 2.9 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__HARRY__Idle
```

```
Main__Upload = Main__UNIBO__UPLOAD__Idle
```

```
Main__Download = Main__UNIBO__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail.

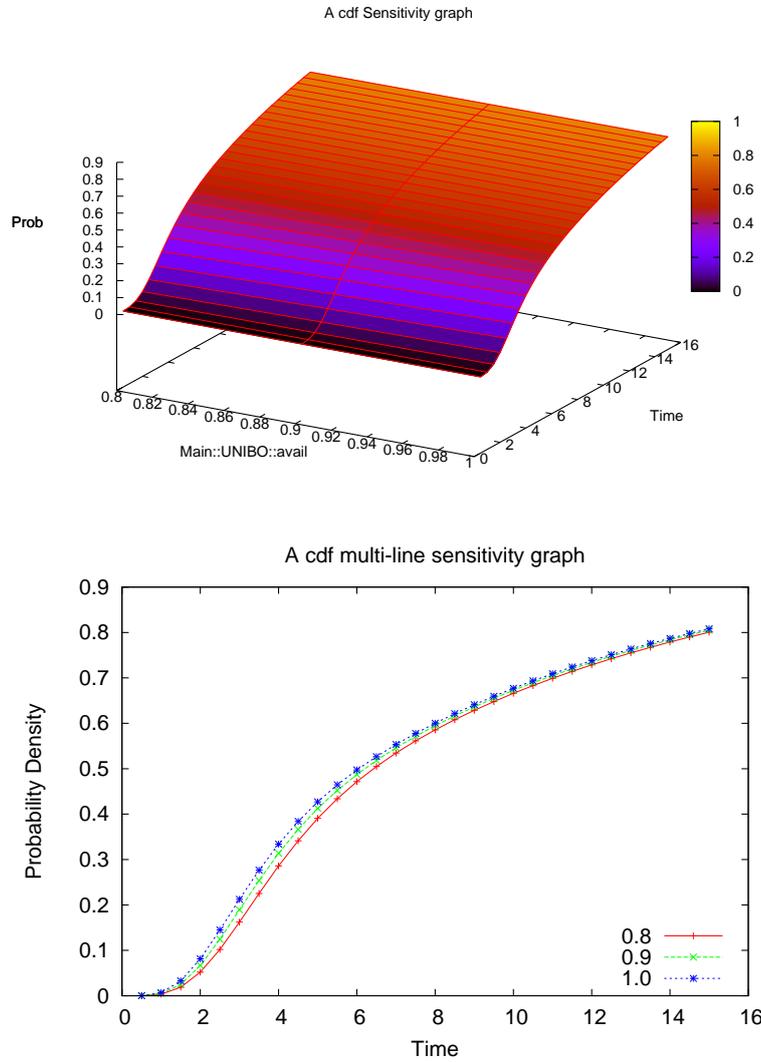


Figure 109: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-8-0-cdf.pdf and Main::UNIBO::avail-8-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail.

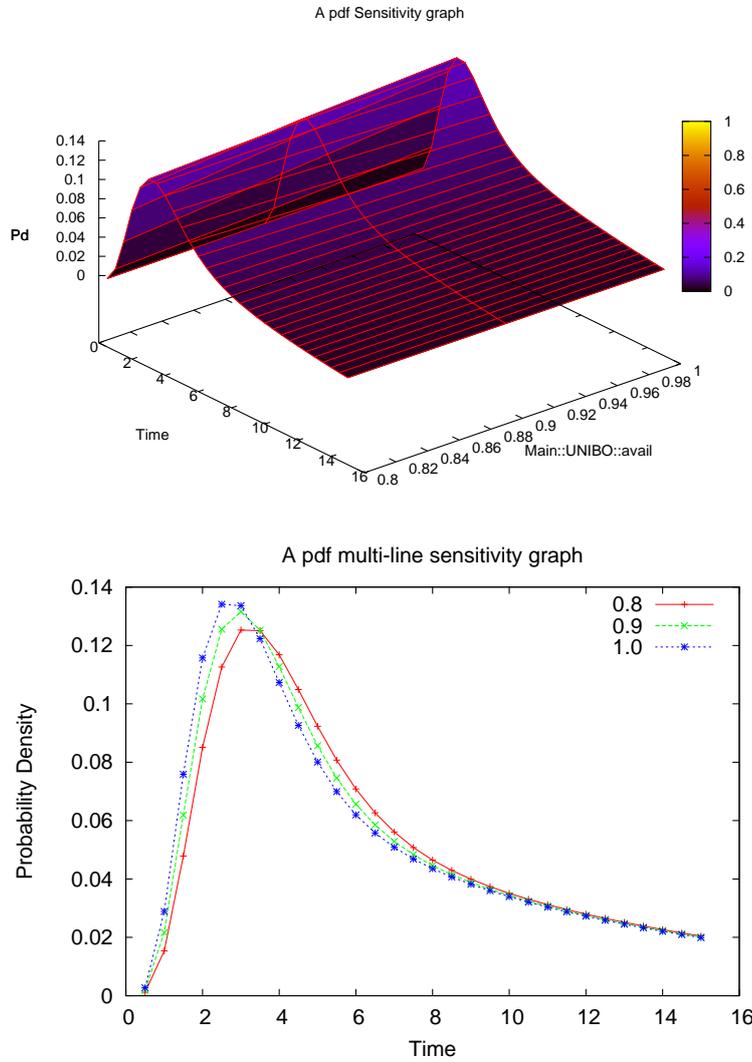


Figure 110: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-8-0-pdf.pdf and Main::UNIBO::avail-8-0-pdf-multi.pdf

## 2.10 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__SALLY__Idle`

`Main__Upload = Main__UEDIN__UPLOAD__Idle`

`Main__Download = Main__UEDIN__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail.

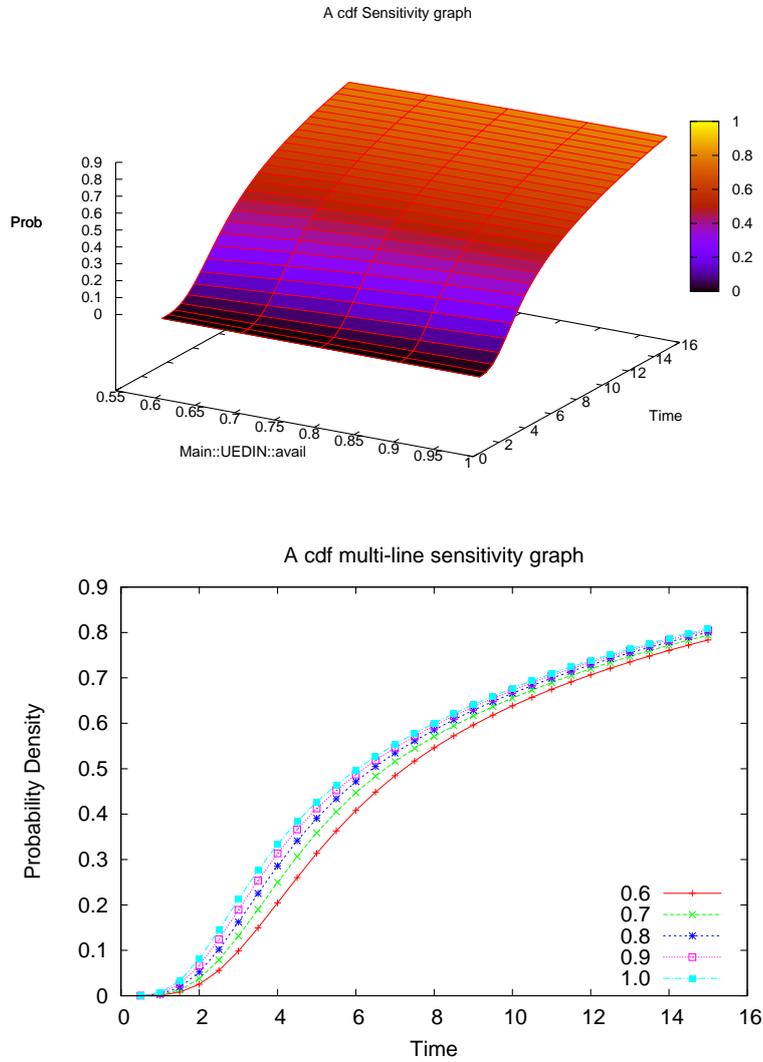


Figure 111: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-9-0-cdf.pdf and Main::UEDIN::avail-9-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail.

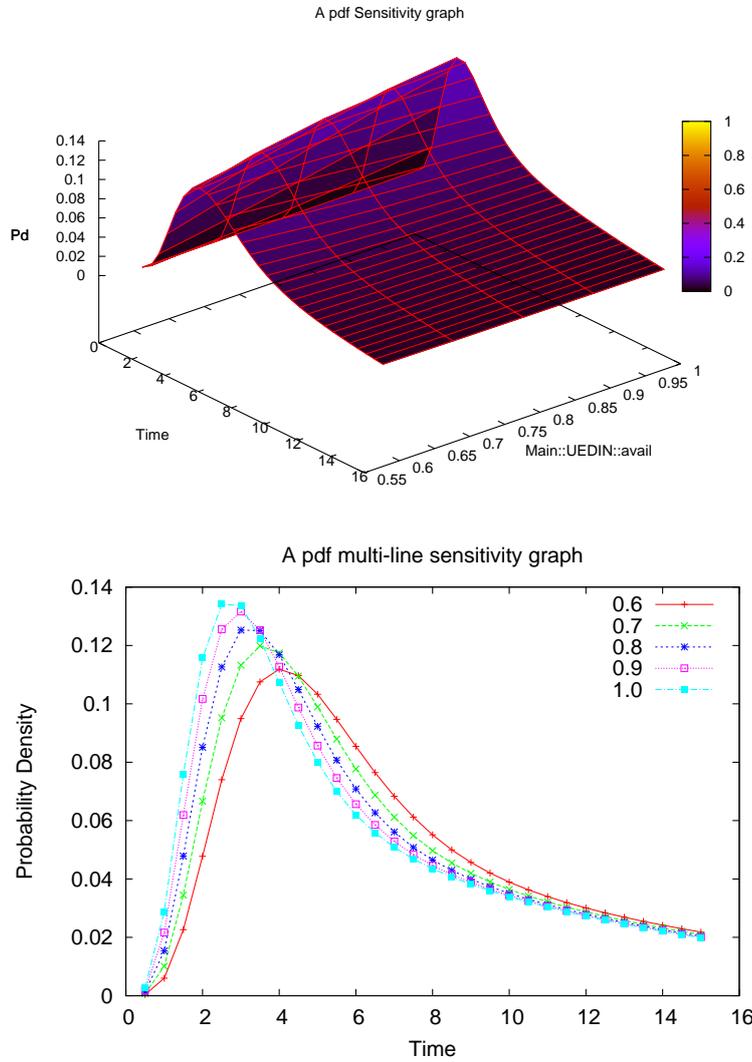


Figure 112: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-9-0-pdf.pdf and Main::UEDIN::avail-9-0-pdf-multi.pdf

## 2.11 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__SALLY__Idle  
Main__Upload = Main__UEDIN__UPLOAD__Idle  
Main__Download = Main__LMU__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

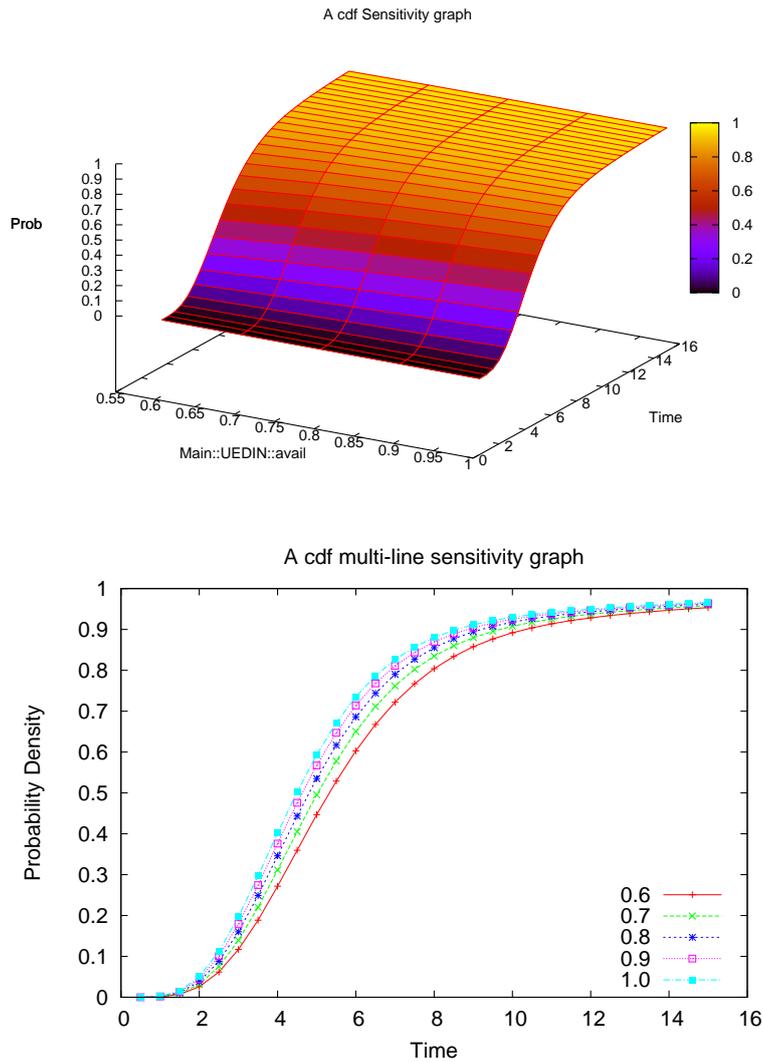


Figure 113: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-0-cdf.pdf and Main::UEDIN::avail-10-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

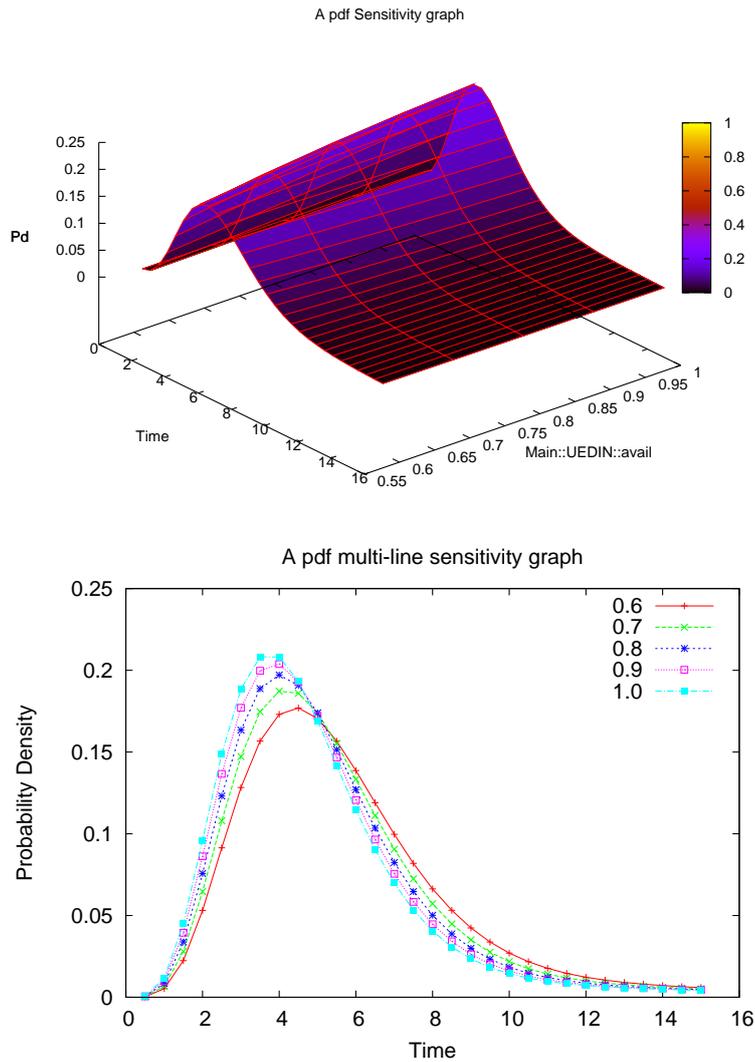


Figure 114: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-0-pdf.pdf and Main::UEDIN::avail-10-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

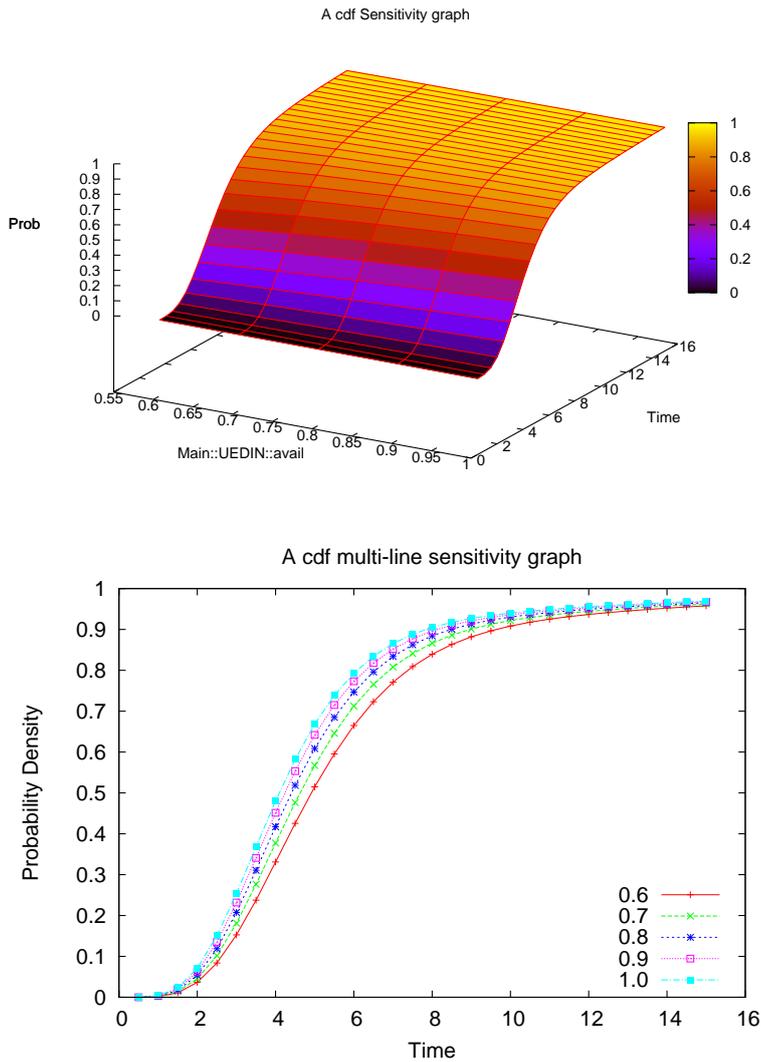


Figure 115: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-1-cdf.pdf and Main::UEDIN::avail-10-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

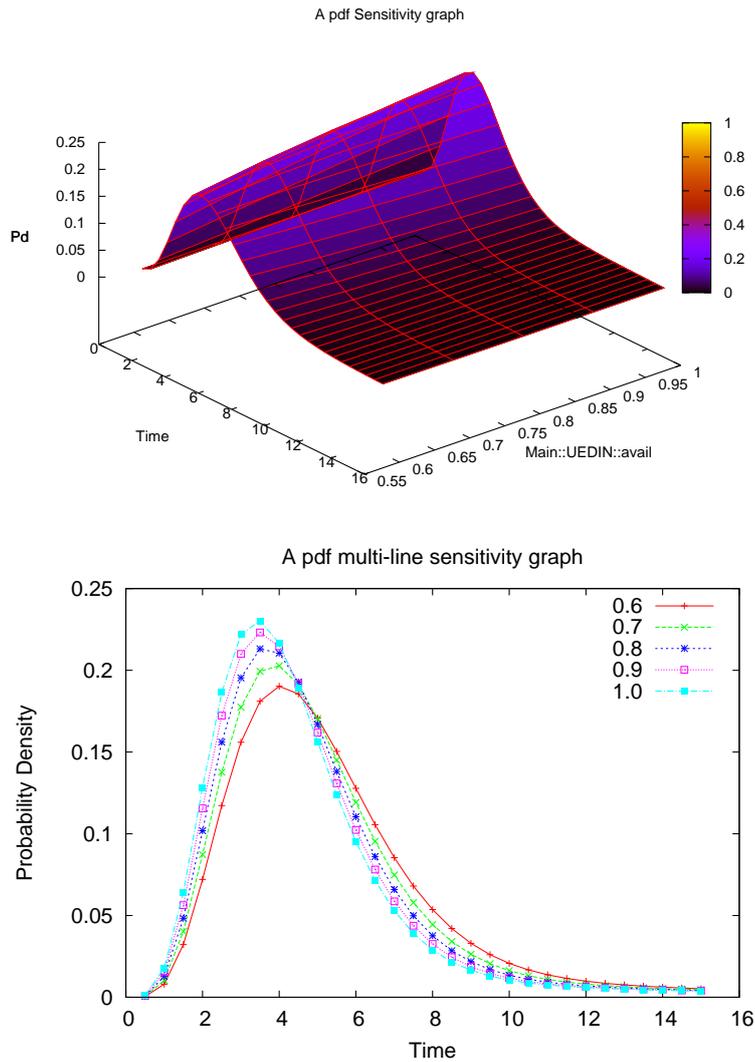


Figure 116: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-1-pdf.pdf and Main::UEDIN::avail-10-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

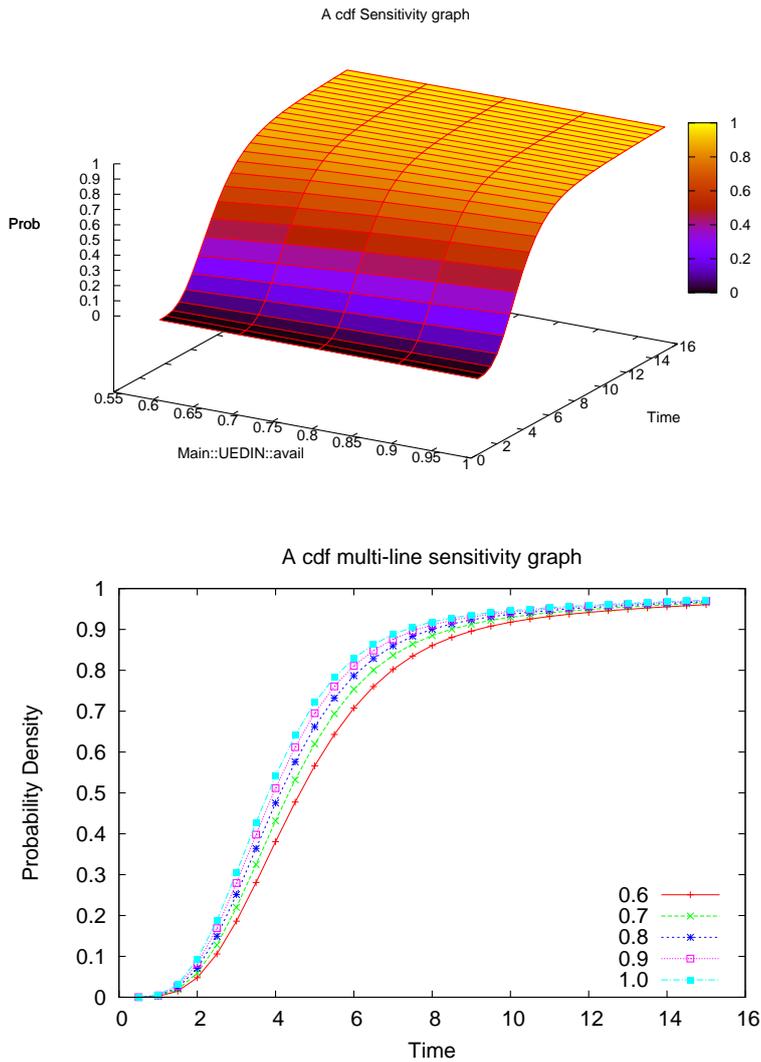


Figure 117: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-2-cdf.pdf and Main::UEDIN::avail-10-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

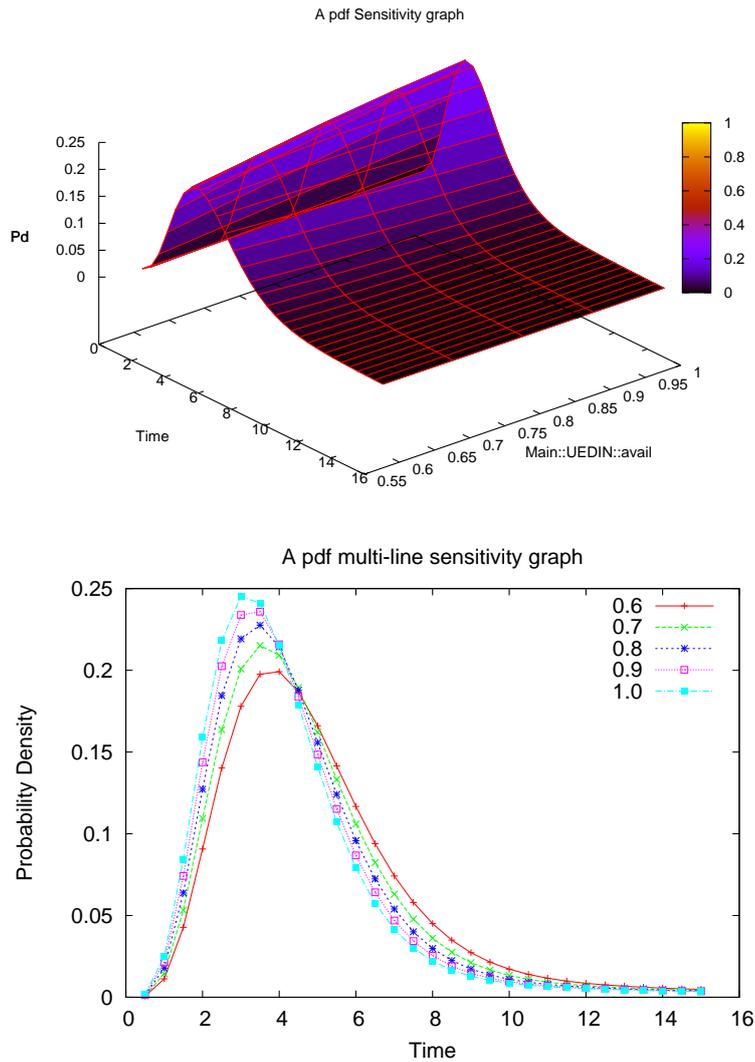


Figure 118: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-2-pdf.pdf and Main::UEDIN::avail-10-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

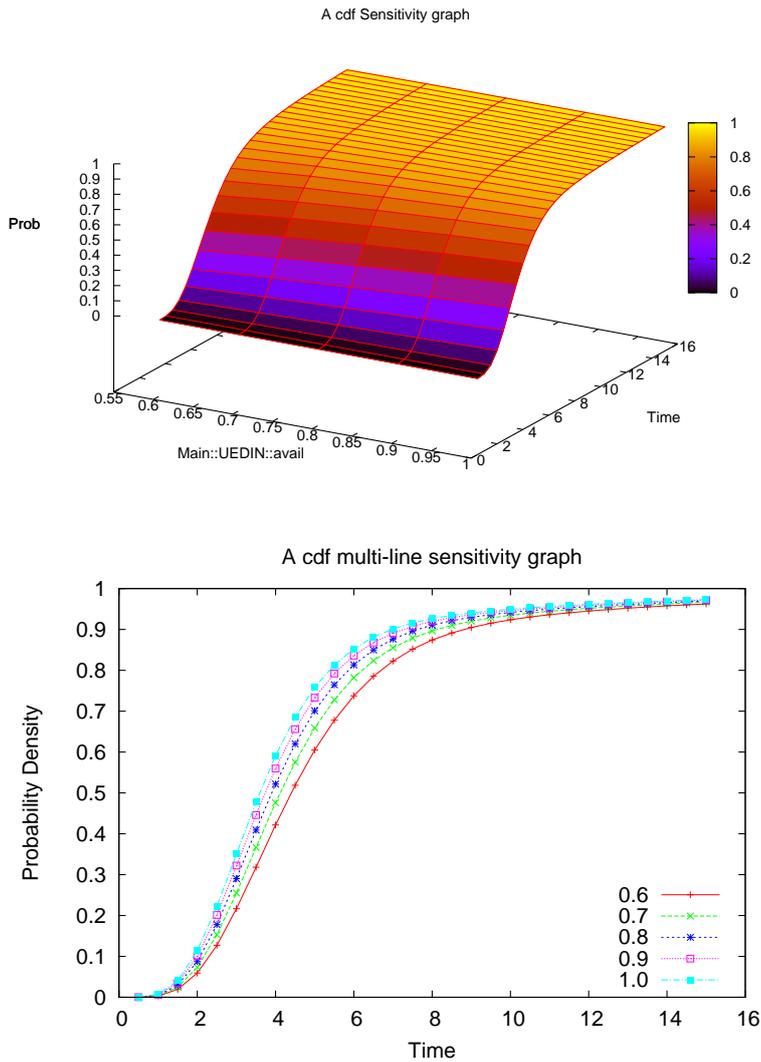


Figure 119: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-3-cdf.pdf and Main::UEDIN::avail-10-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

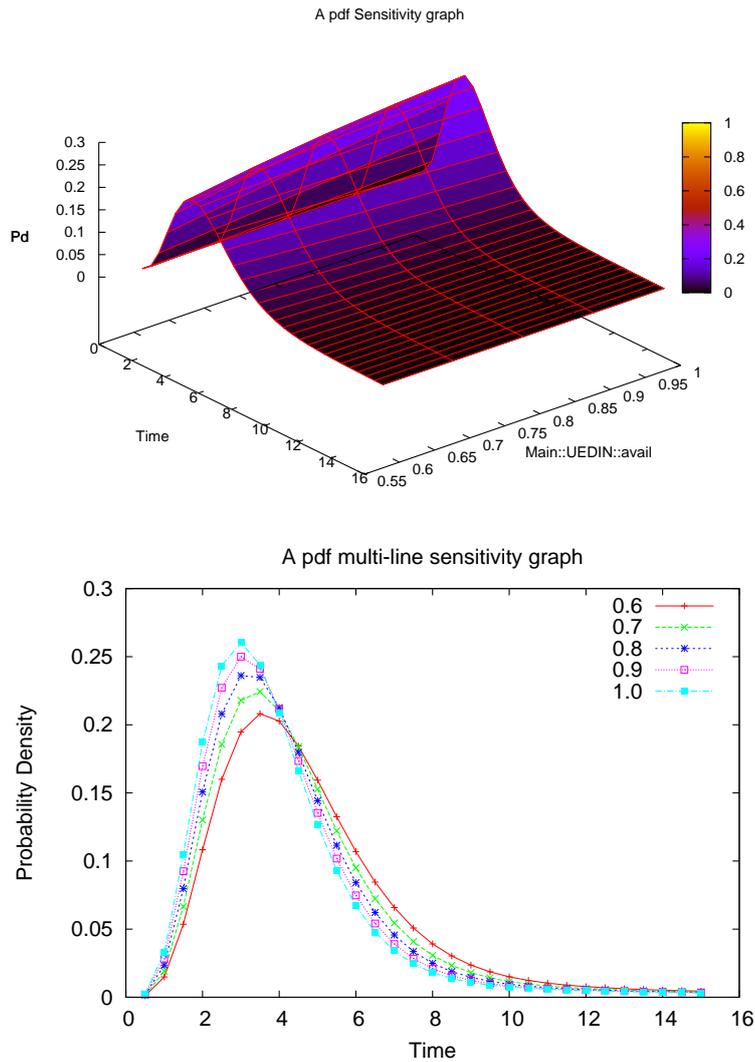


Figure 120: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-3-pdf.pdf and Main::UEDIN::avail-10-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

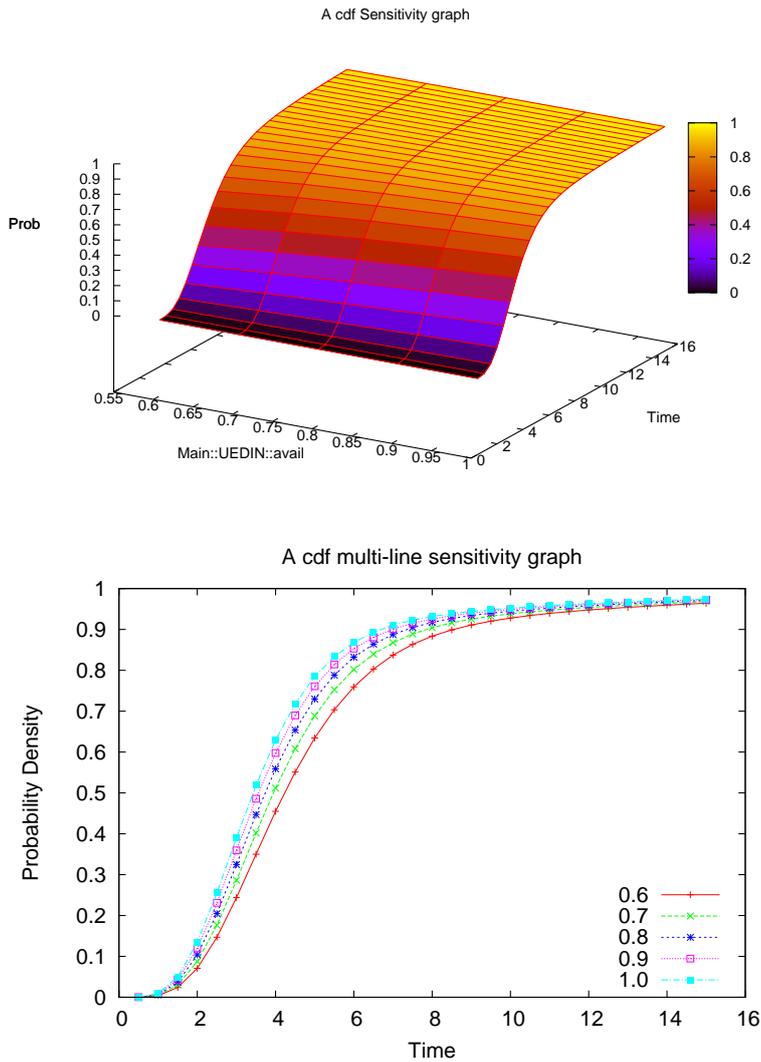


Figure 121: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-4-cdf.pdf and Main::UEDIN::avail-10-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

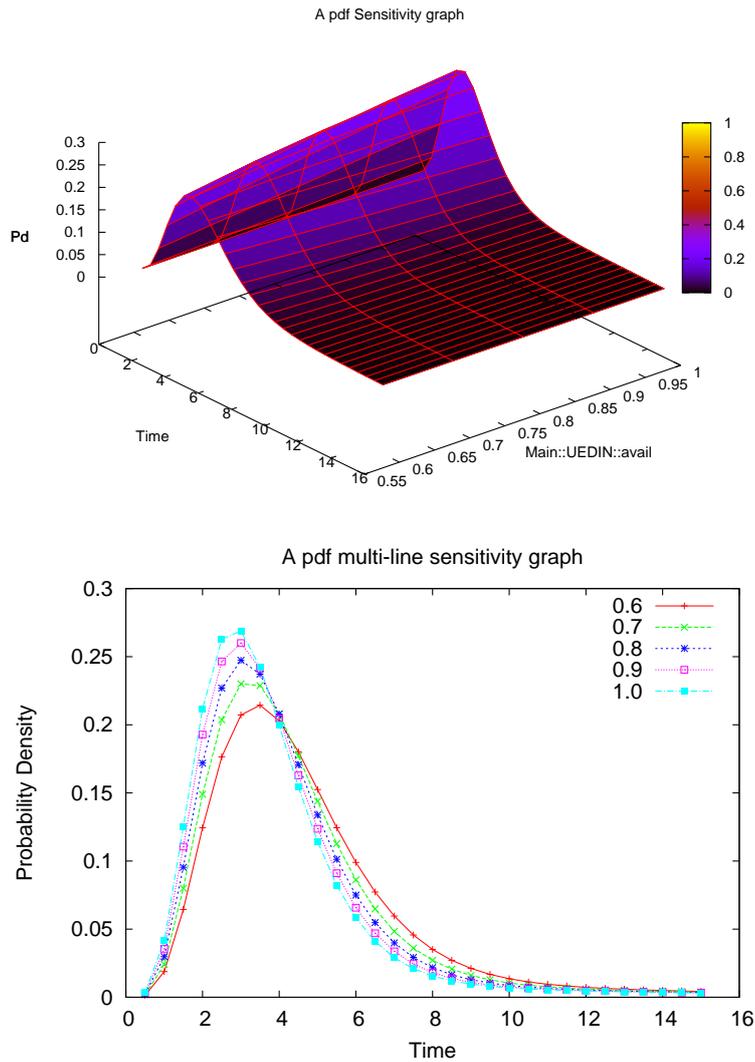


Figure 122: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-10-4-pdf.pdf and Main::UEDIN::avail-10-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

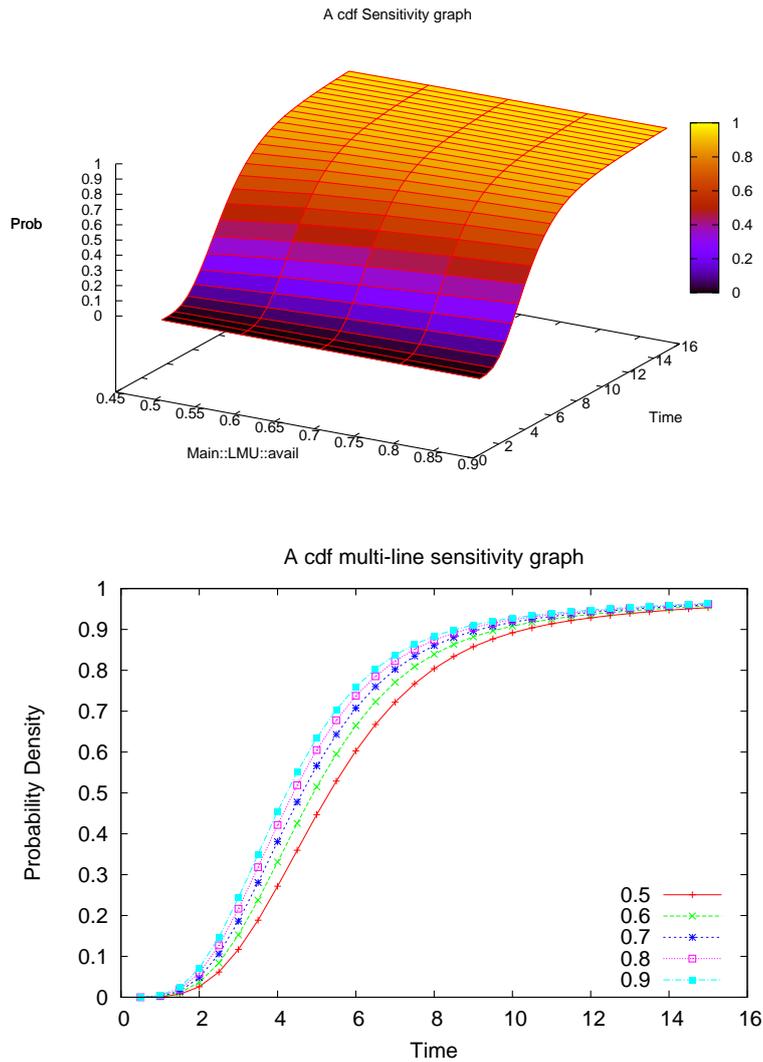


Figure 123: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-5-cdf.pdf and Main::LMU::avail-10-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

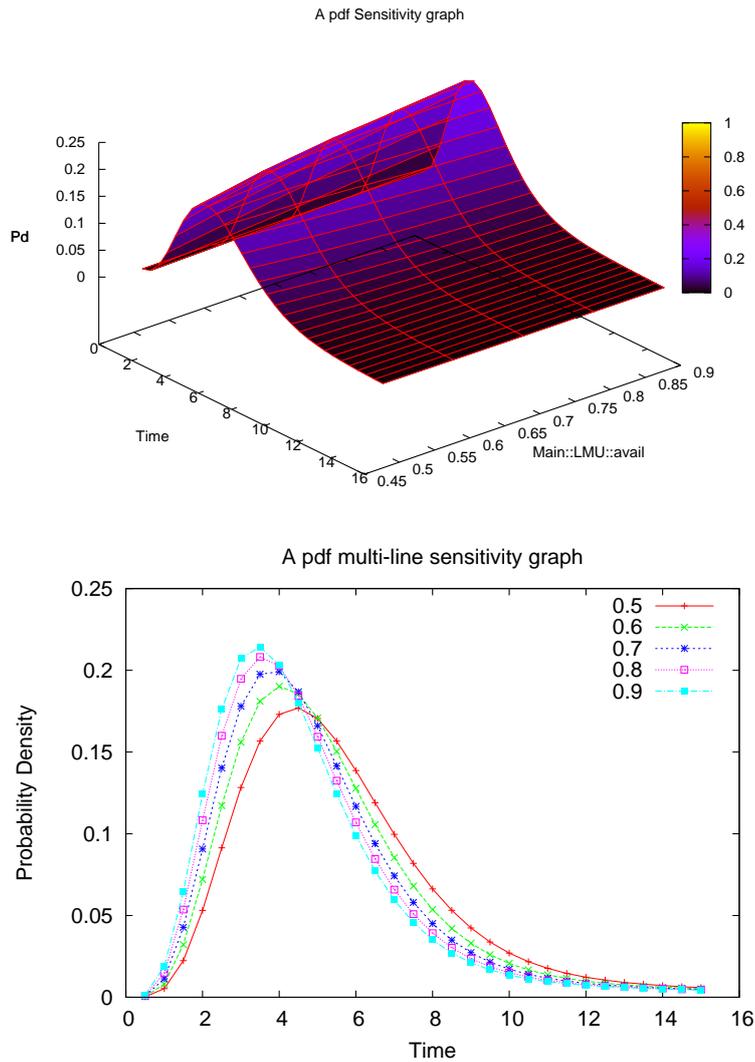


Figure 124: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-5-pdf.pdf and Main::LMU::avail-10-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

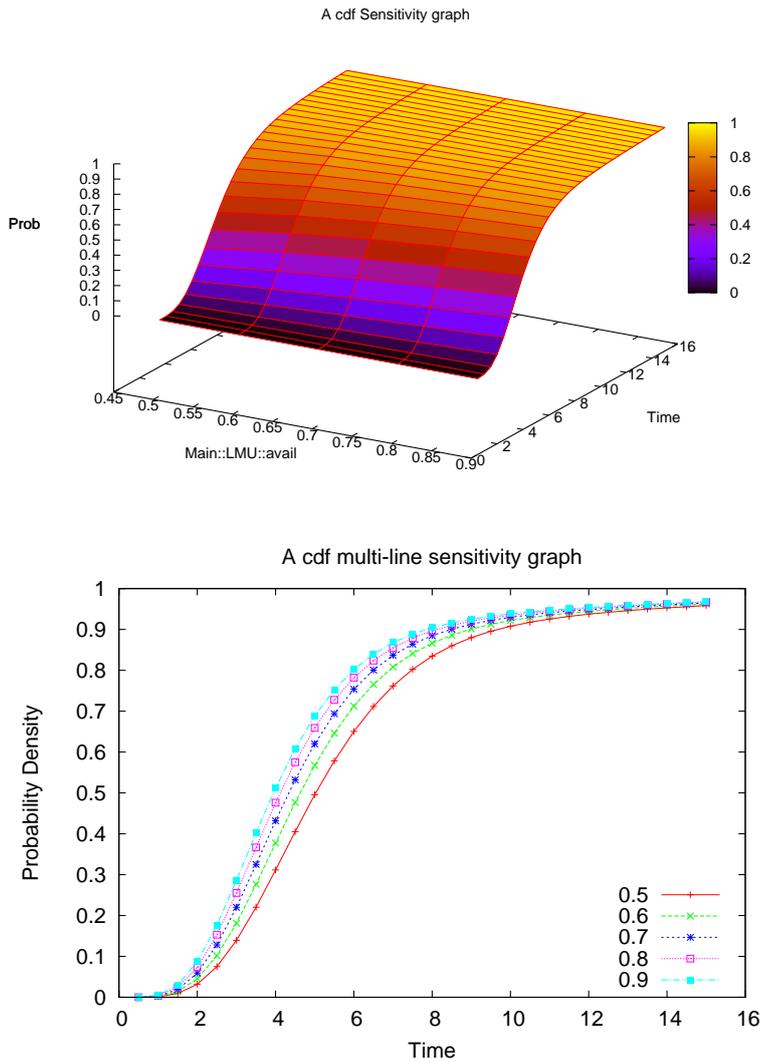


Figure 125: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-6-cdf.pdf and Main::LMU::avail-10-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate `Main::LMU::avail`. The other rates which are used in this model (and are defined by a rate array in the main `srmc` model) are as follows:

`Main::UEDIN::avail = 0.7`

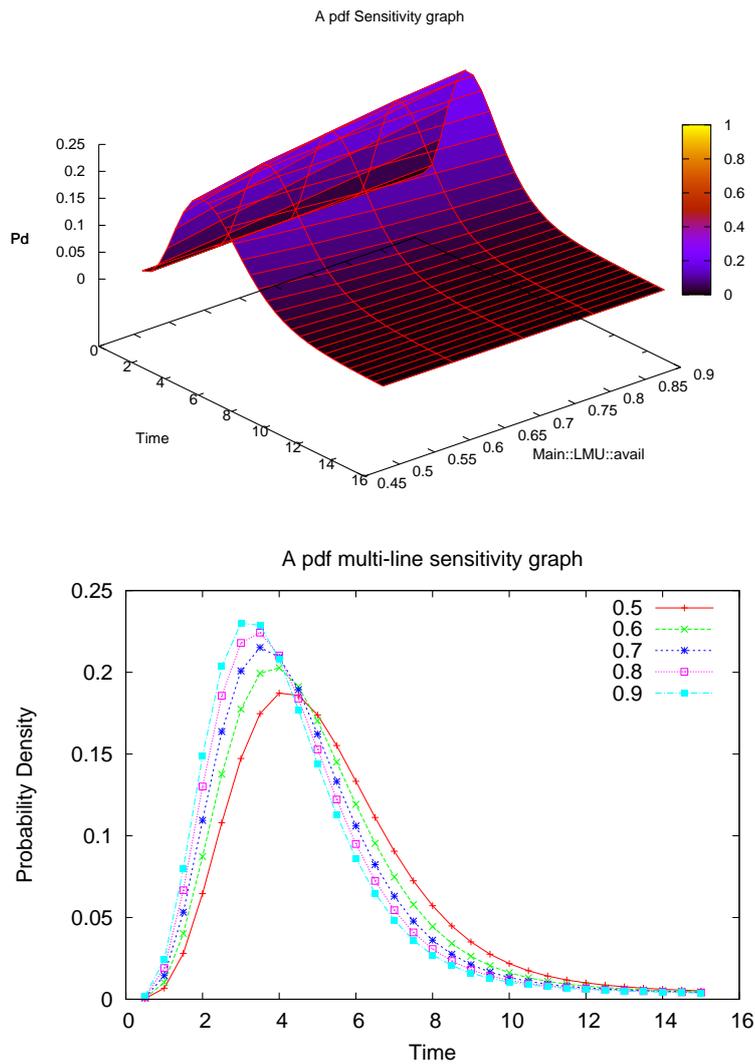


Figure 126: Sensitivity graphs of pdfs for the rate: `Main::LMU::avail`

The file names are: `Main::LMU::avail-10-6-pdf.pdf` and `Main::LMU::avail-10-6-pdf-multi.pdf`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

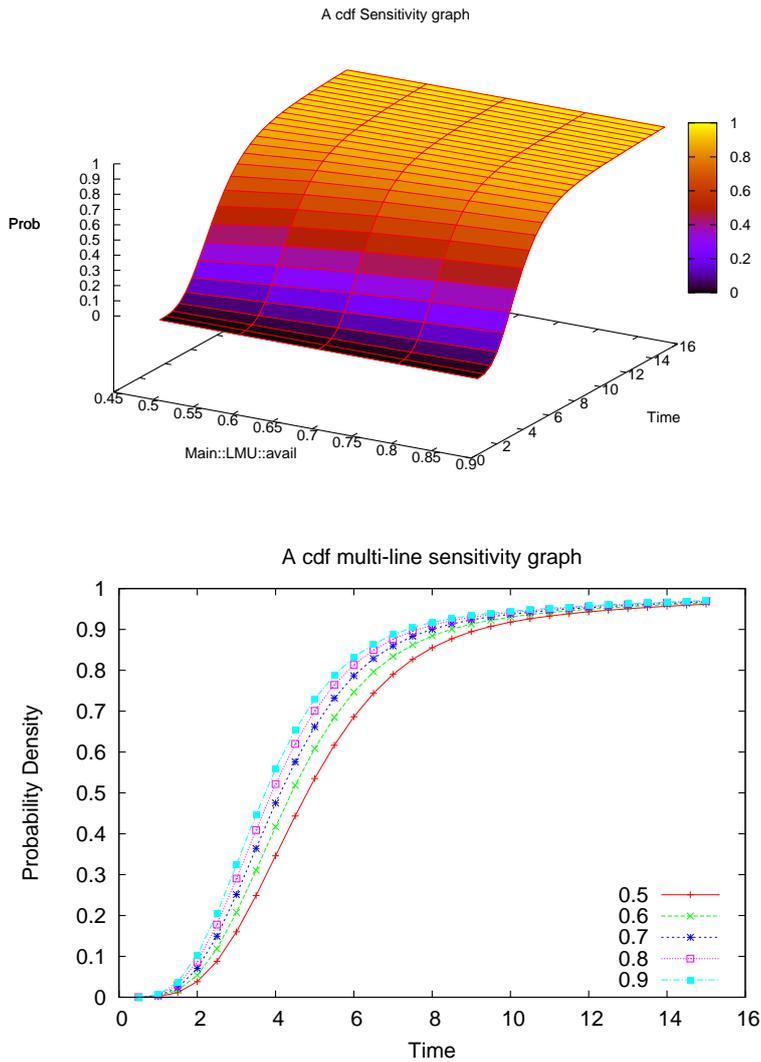


Figure 127: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-7-cdf.pdf and Main::LMU::avail-10-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

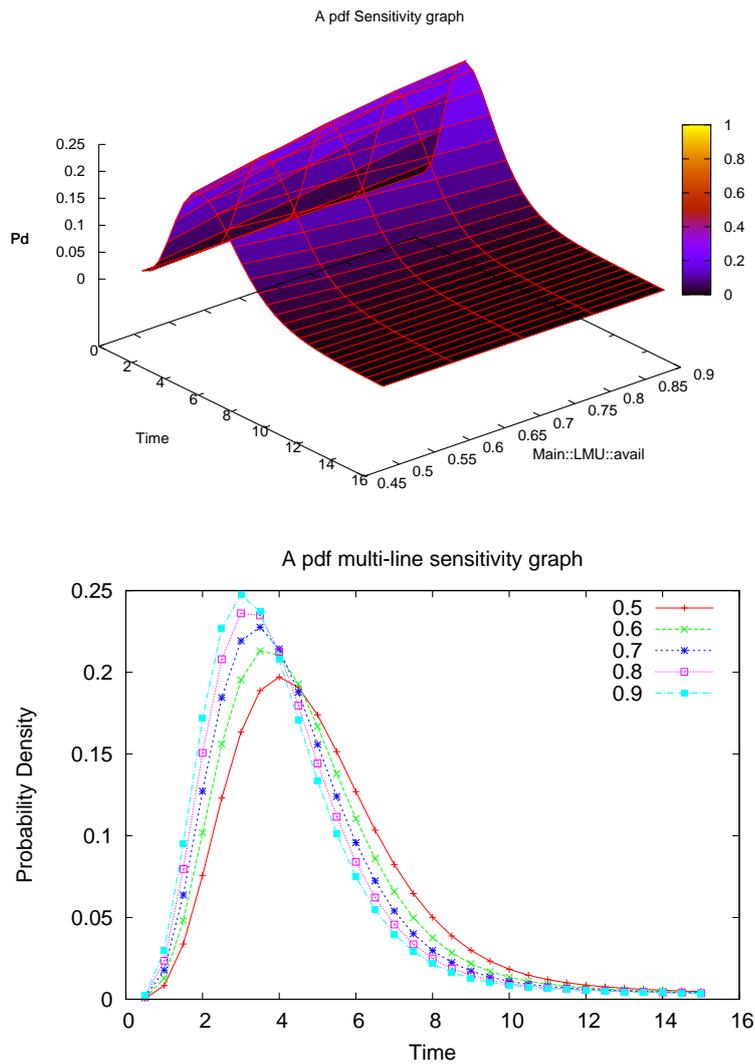


Figure 128: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-7-pdf.pdf and Main::LMU::avail-10-7-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

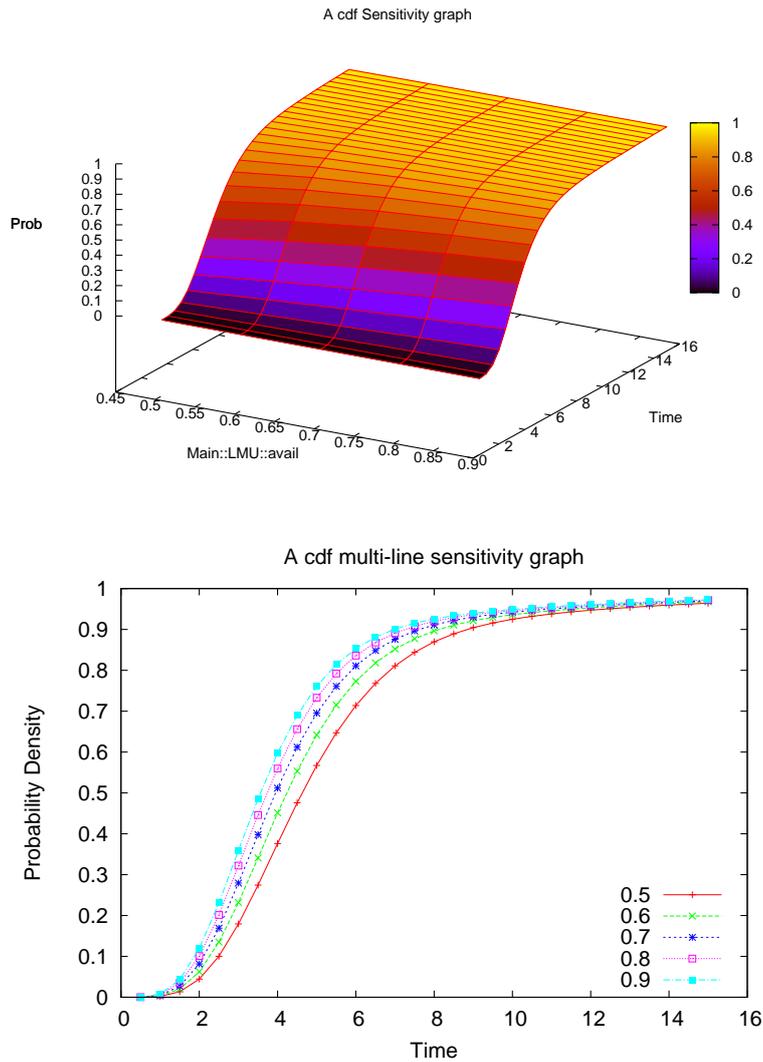


Figure 129: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-8-cdf.pdf and Main::LMU::avail-10-8-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

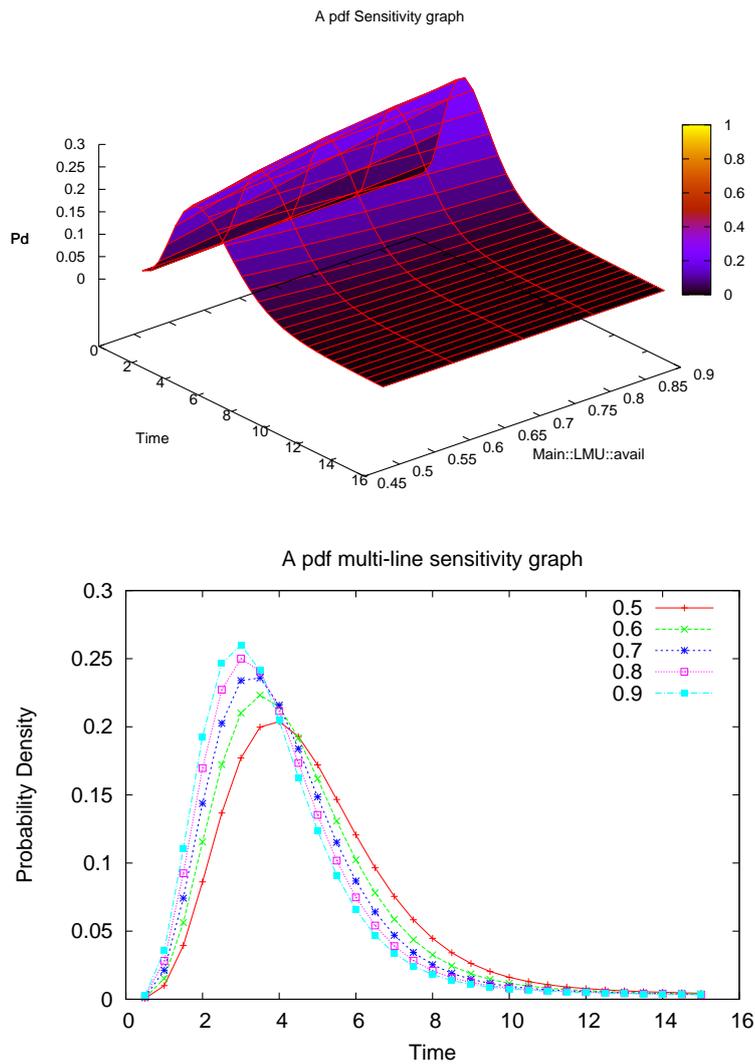


Figure 130: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-8-pdf.pdf and Main::LMU::avail-10-8-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

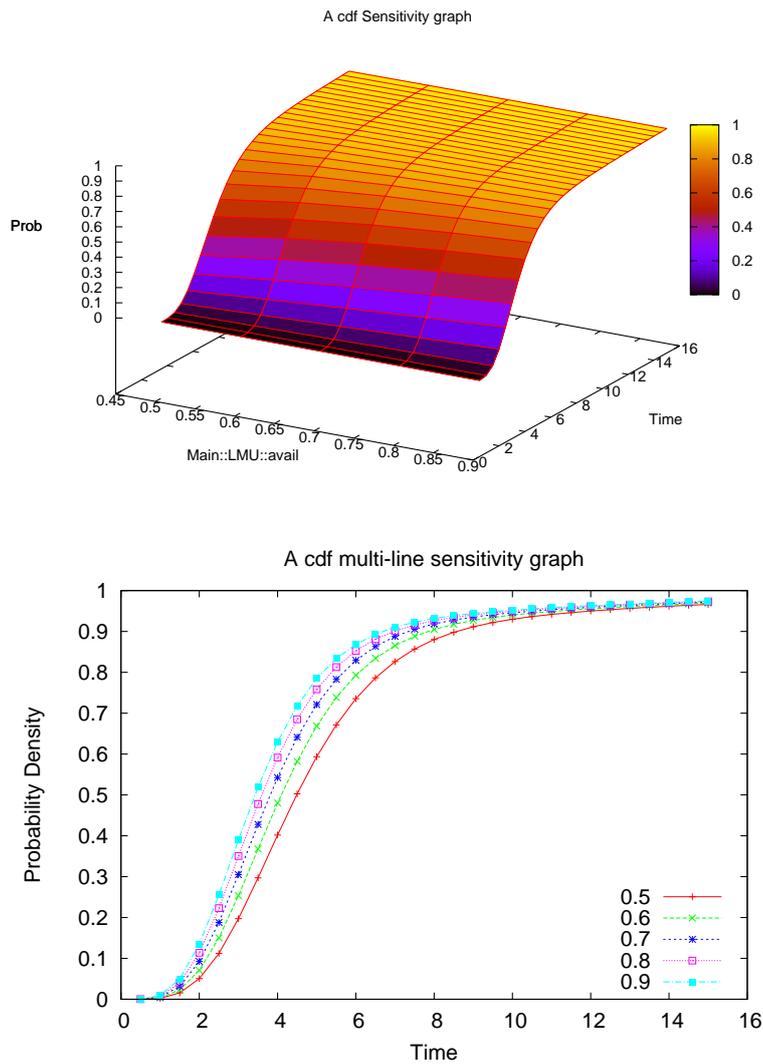


Figure 131: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-9-cdf.pdf and Main::LMU::avail-10-9-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

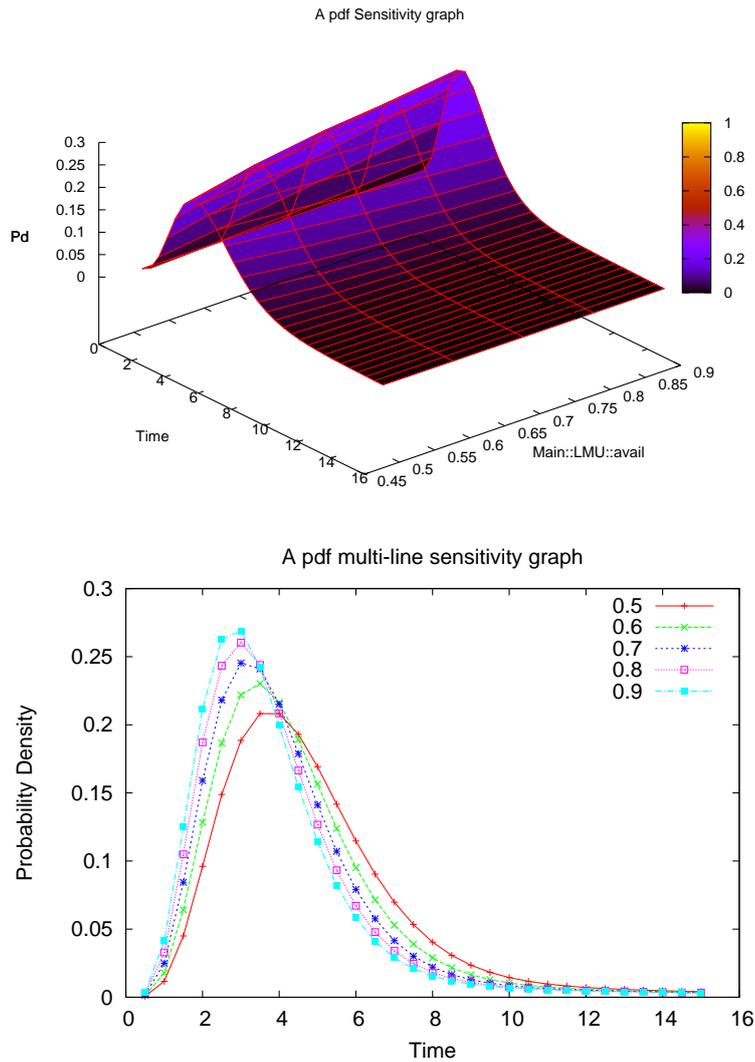


Figure 132: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-10-9-pdf.pdf and Main::LMU::avail-10-9-pdf-multi.pdf

## 2.12 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__SALLY__Idle`

`Main__Upload = Main__UEDIN__UPLOAD__Idle`

`Main__Download = Main__UNIBO__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

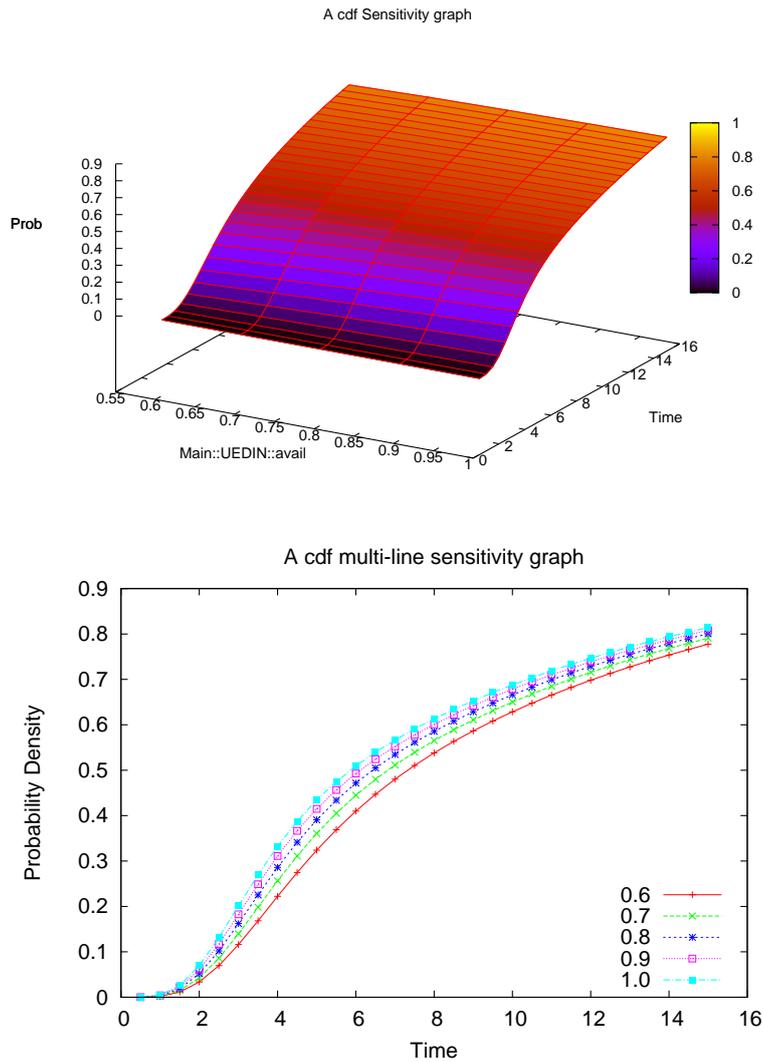


Figure 133: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-11-0-cdf.pdf and Main::UEDIN::avail-11-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

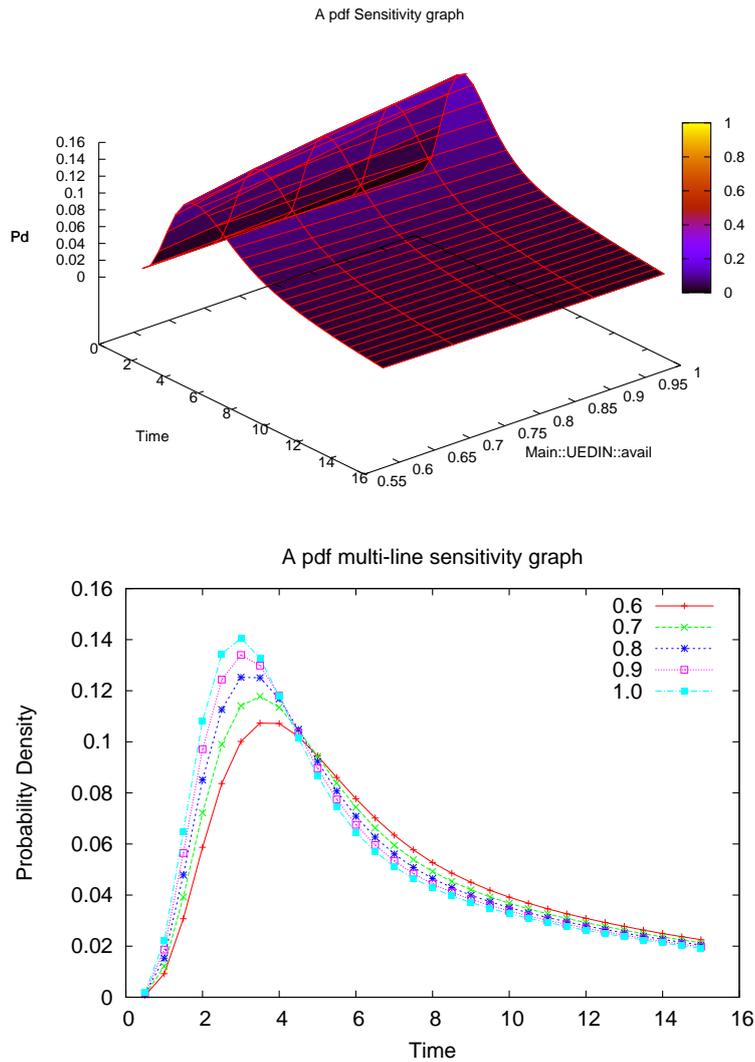


Figure 134: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-11-0-pdf.pdf and Main::UEDIN::avail-11-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

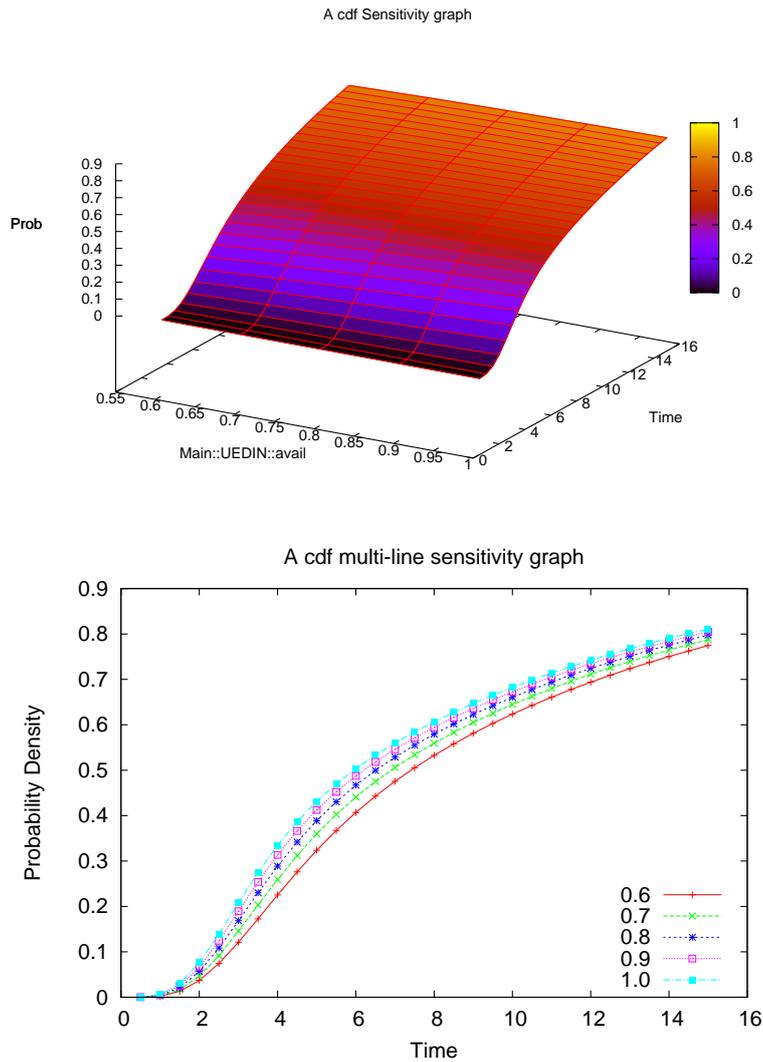


Figure 135: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-11-1-cdf.pdf and Main::UEDIN::avail-11-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

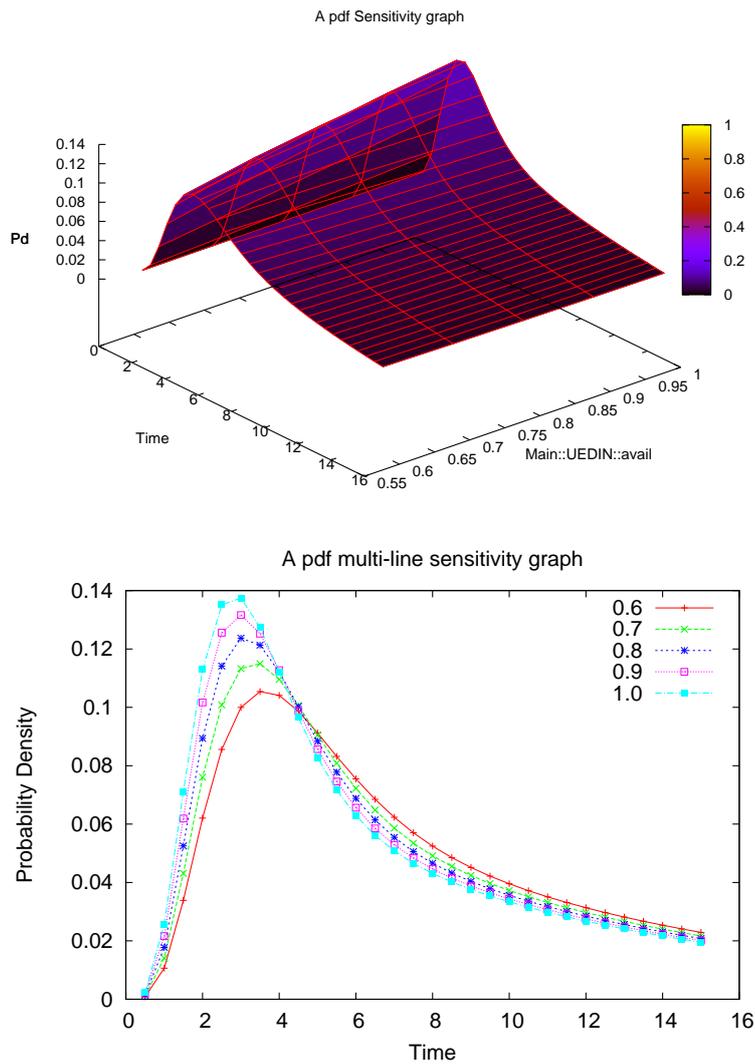


Figure 136: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-11-1-pdf.pdf and Main::UEDIN::avail-11-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

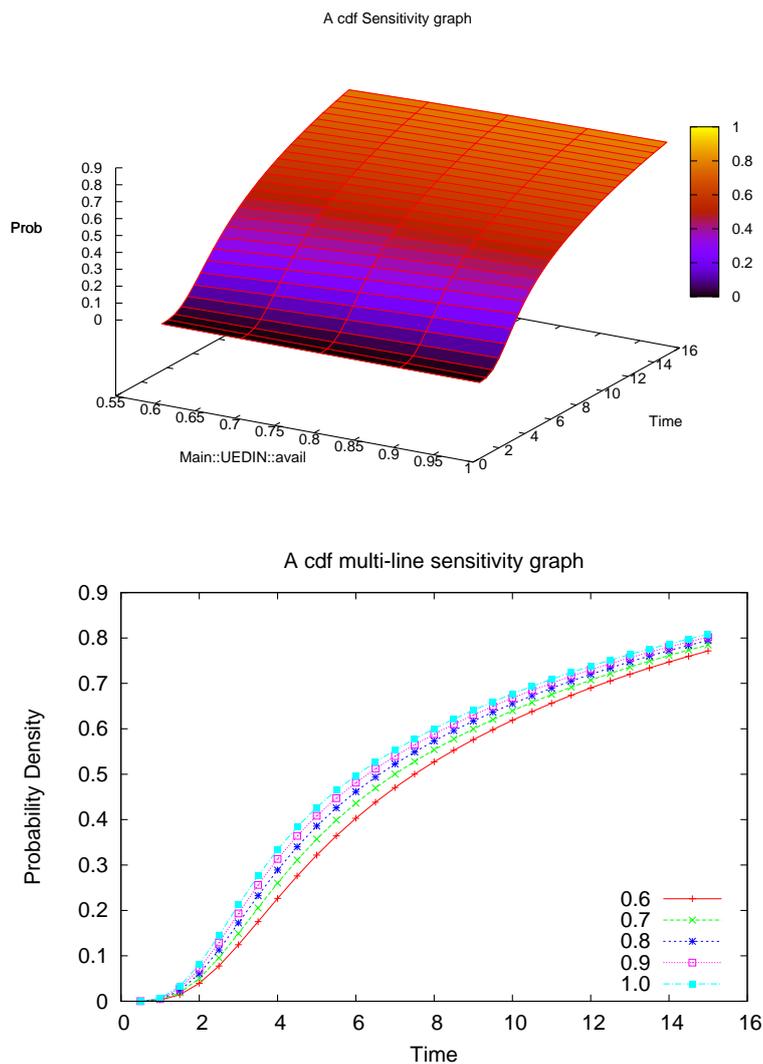


Figure 137: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-11-2-cdf.pdf and Main::UEDIN::avail-11-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

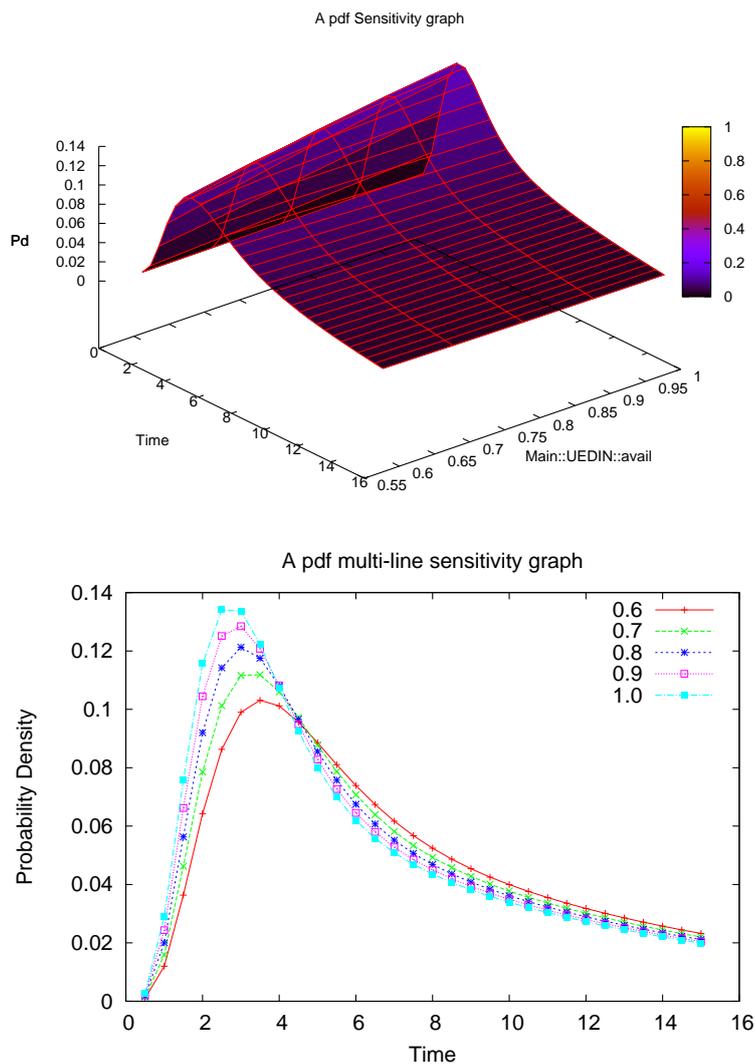


Figure 138: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-11-2-pdf.pdf and Main::UEDIN::avail-11-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

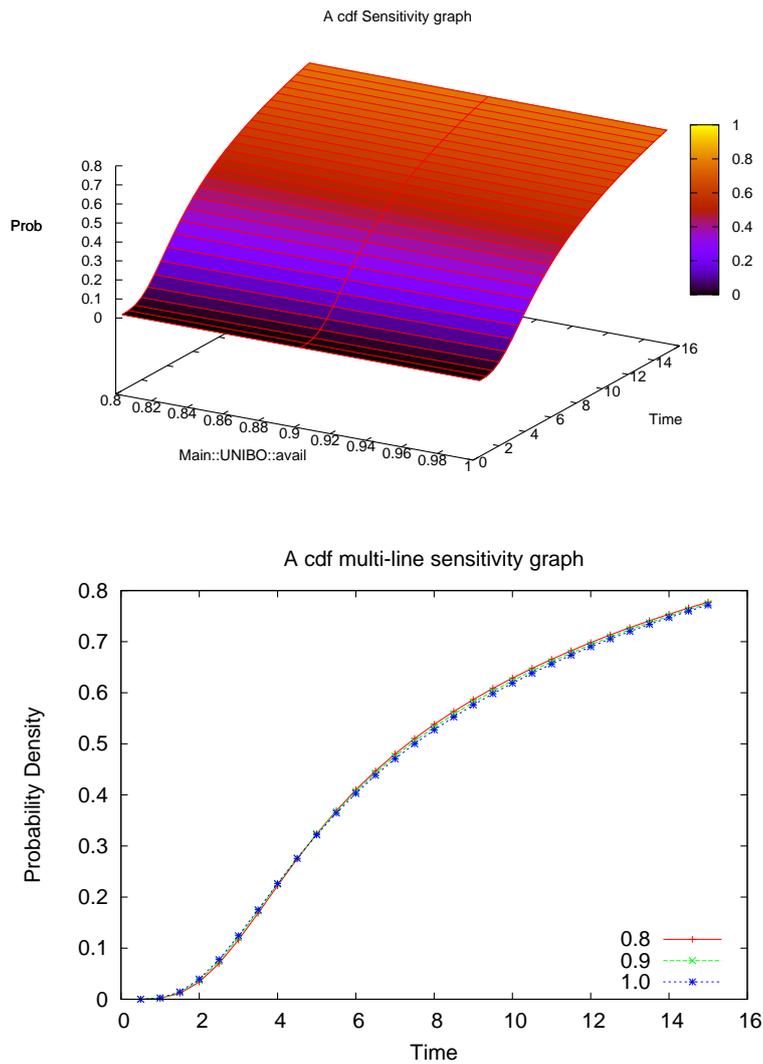


Figure 139: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-3-cdf.pdf and Main::UNIBO::avail-11-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

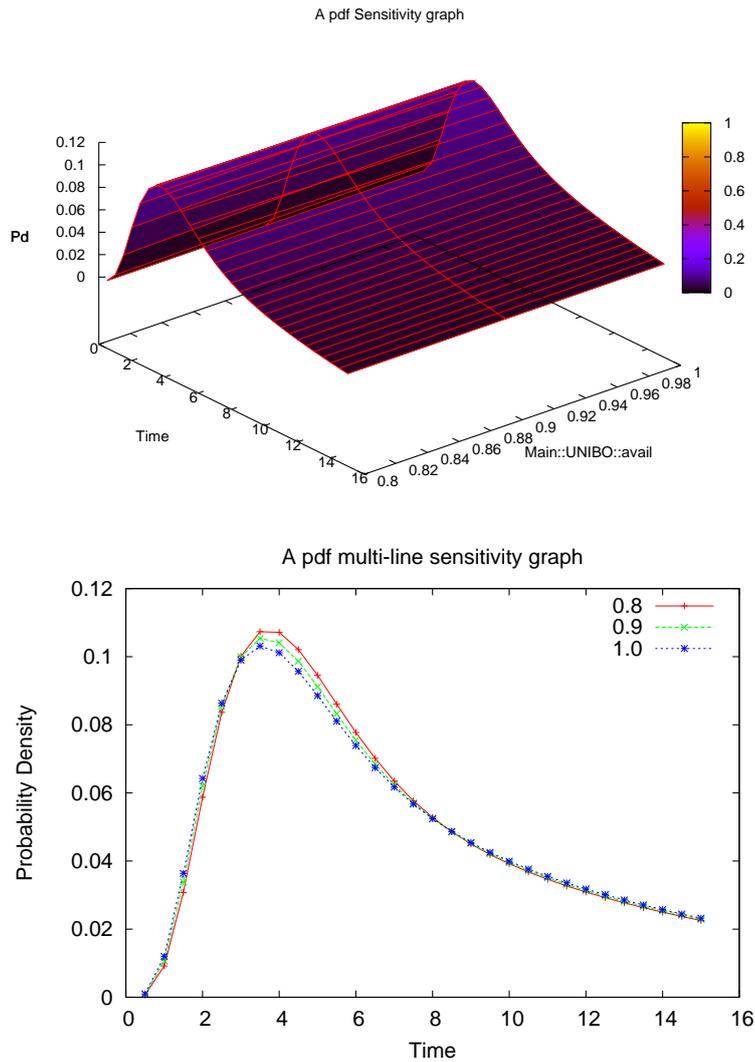


Figure 140: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-3-pdf.pdf and Main::UNIBO::avail-11-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

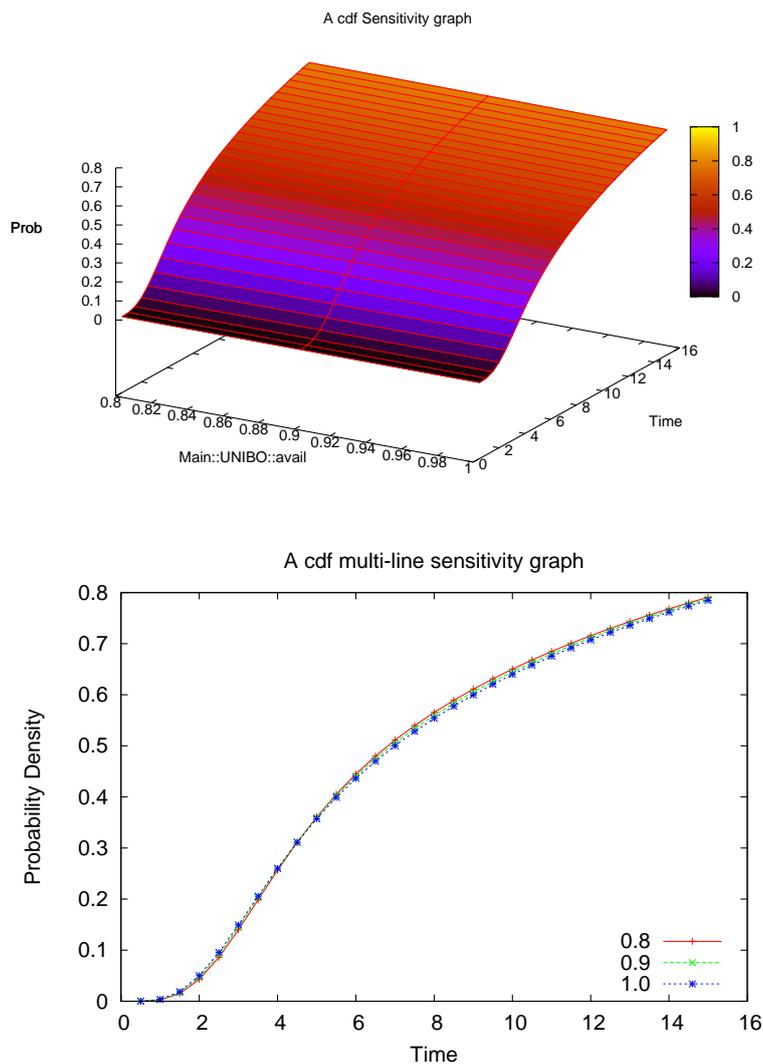


Figure 141: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-4-cdf.pdf and Main::UNIBO::avail-11-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

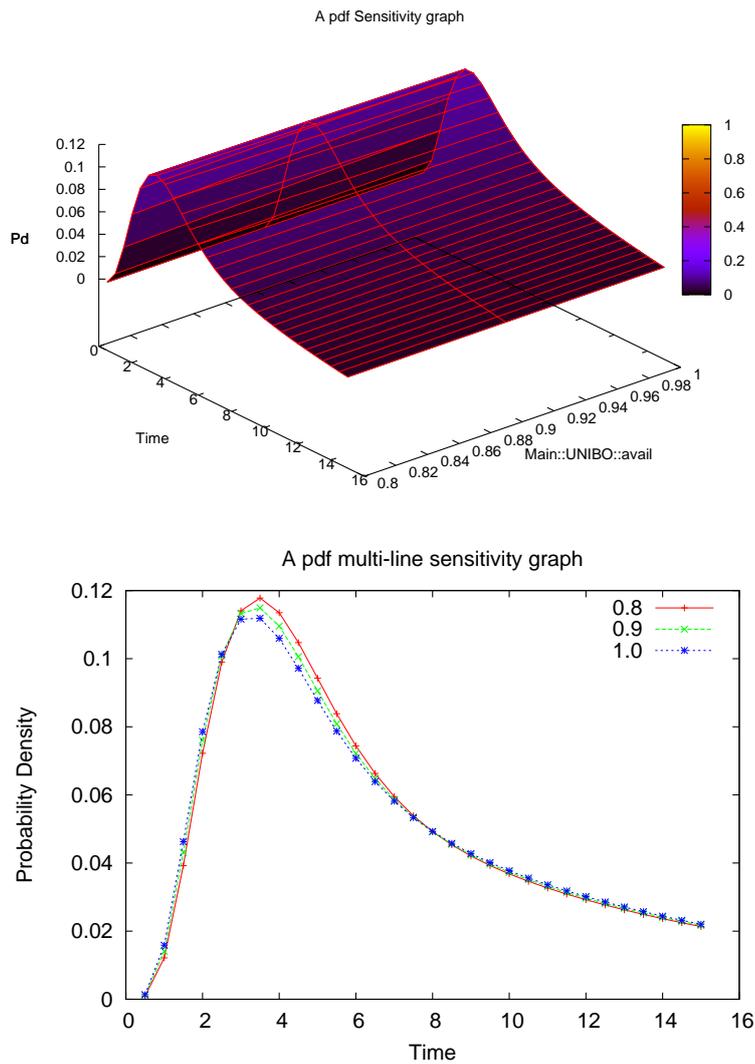


Figure 142: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-4-pdf.pdf and Main::UNIBO::avail-11-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

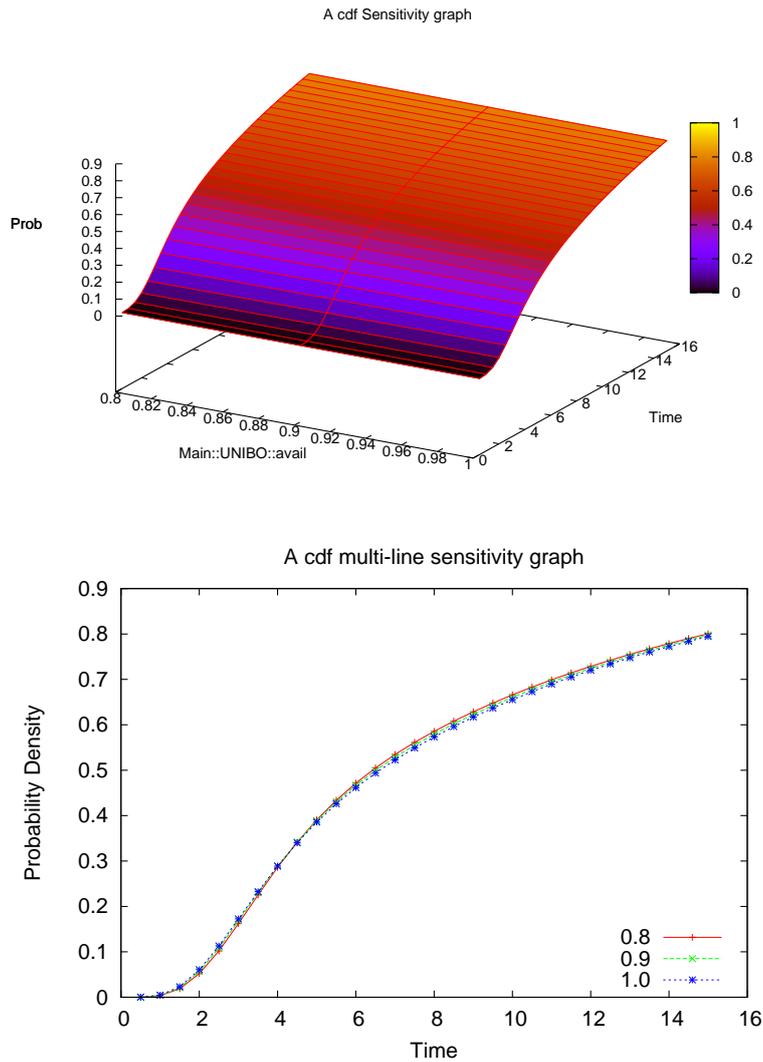


Figure 143: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-5-cdf.pdf and Main::UNIBO::avail-11-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

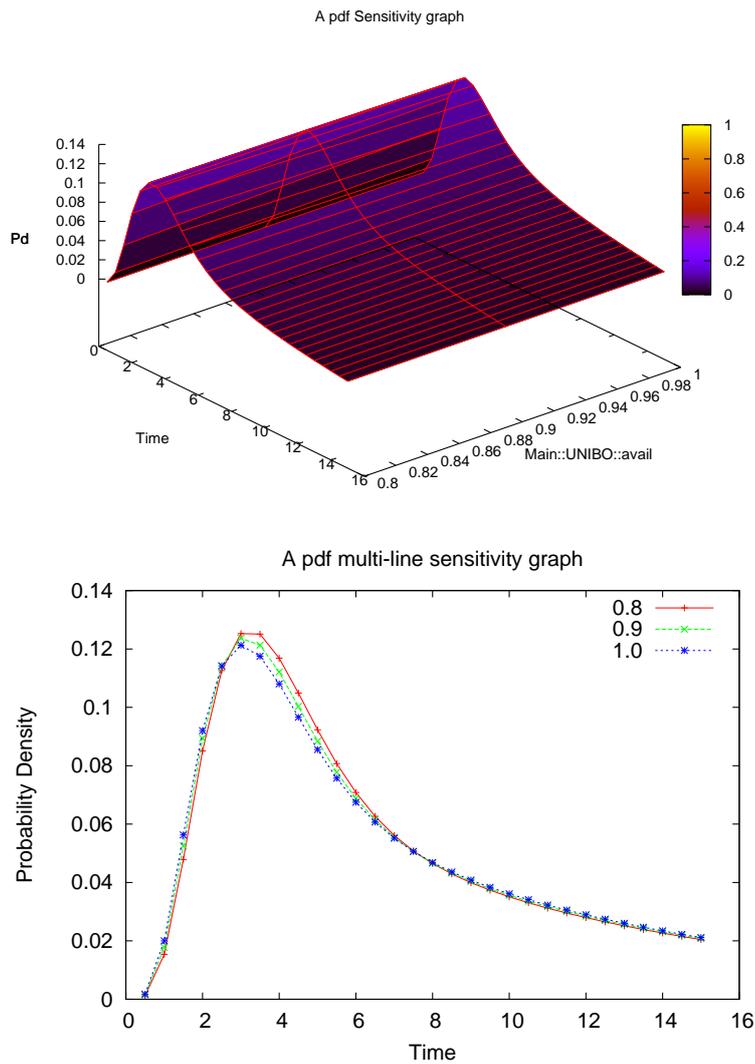


Figure 144: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-5-pdf.pdf and Main::UNIBO::avail-11-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

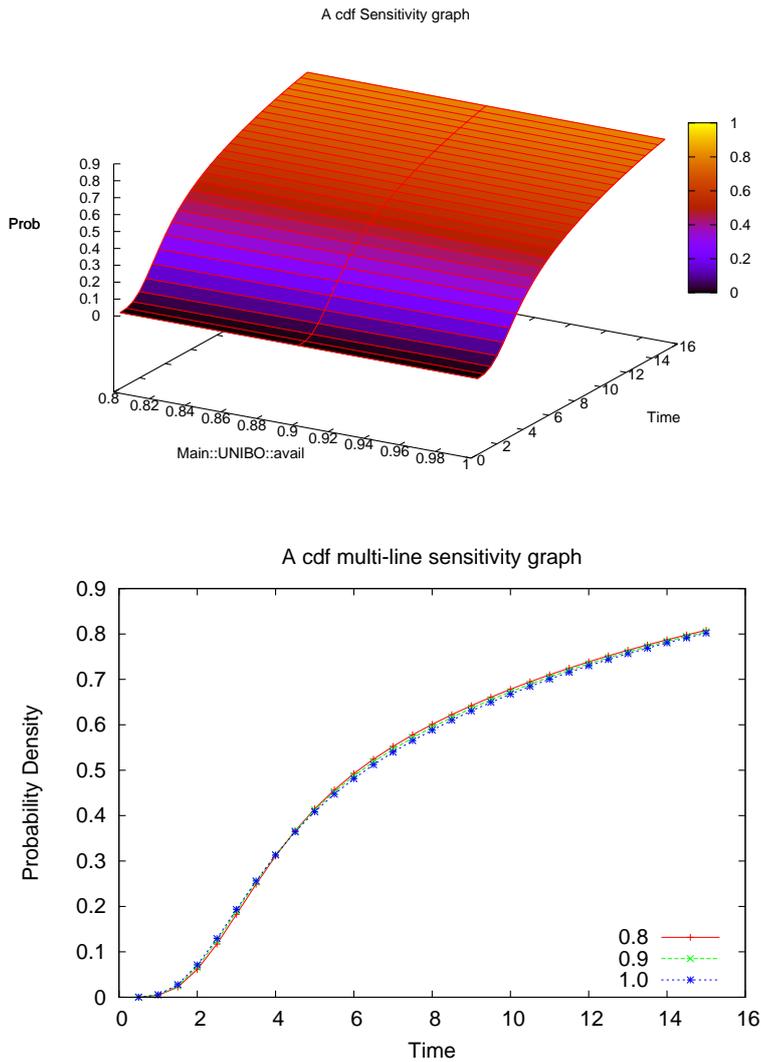


Figure 145: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-6-cdf.pdf and Main::UNIBO::avail-11-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

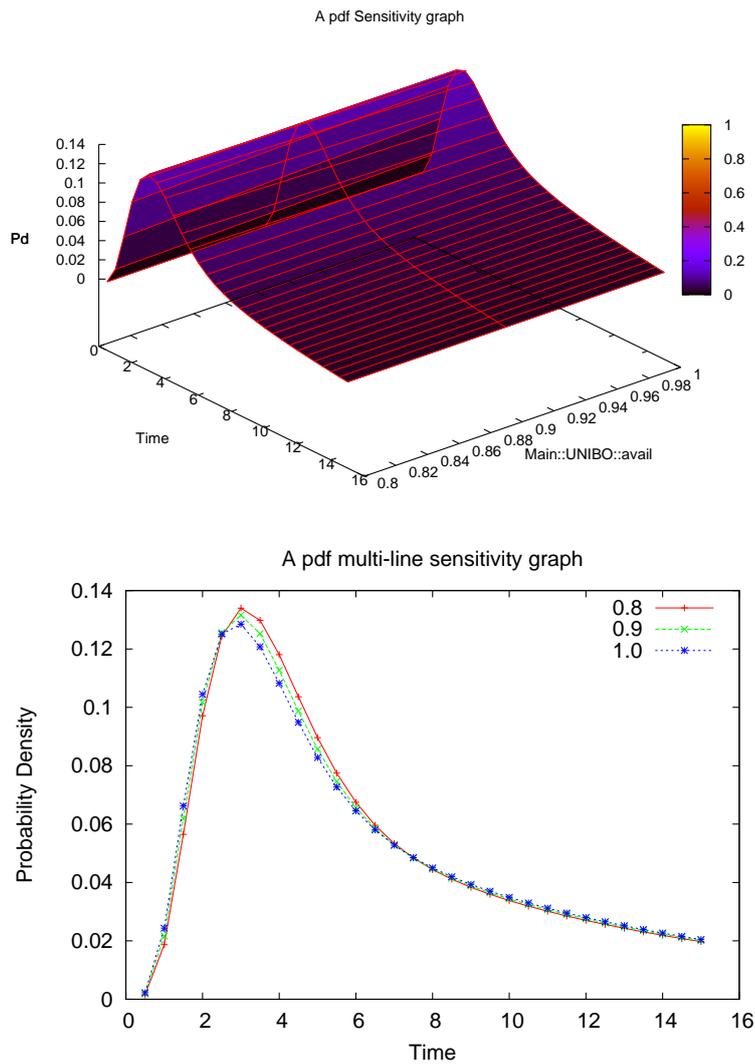


Figure 146: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-6-pdf.pdf and Main::UNIBO::avail-11-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

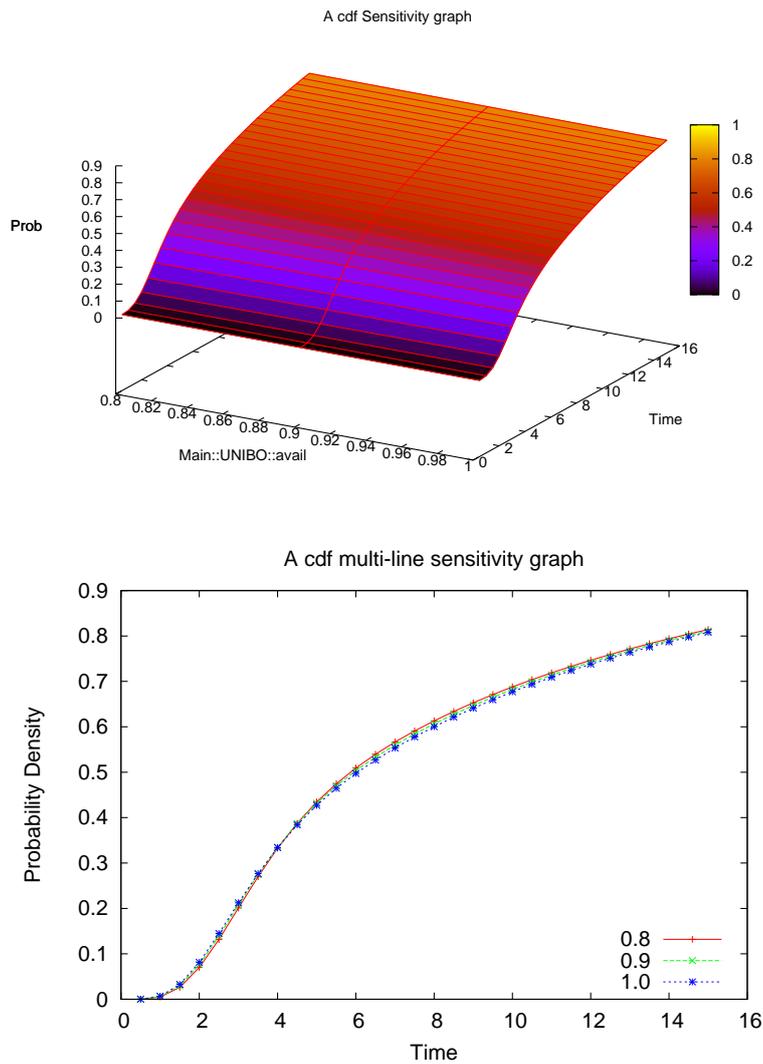


Figure 147: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-7-cdf.pdf and Main::UNIBO::avail-11-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

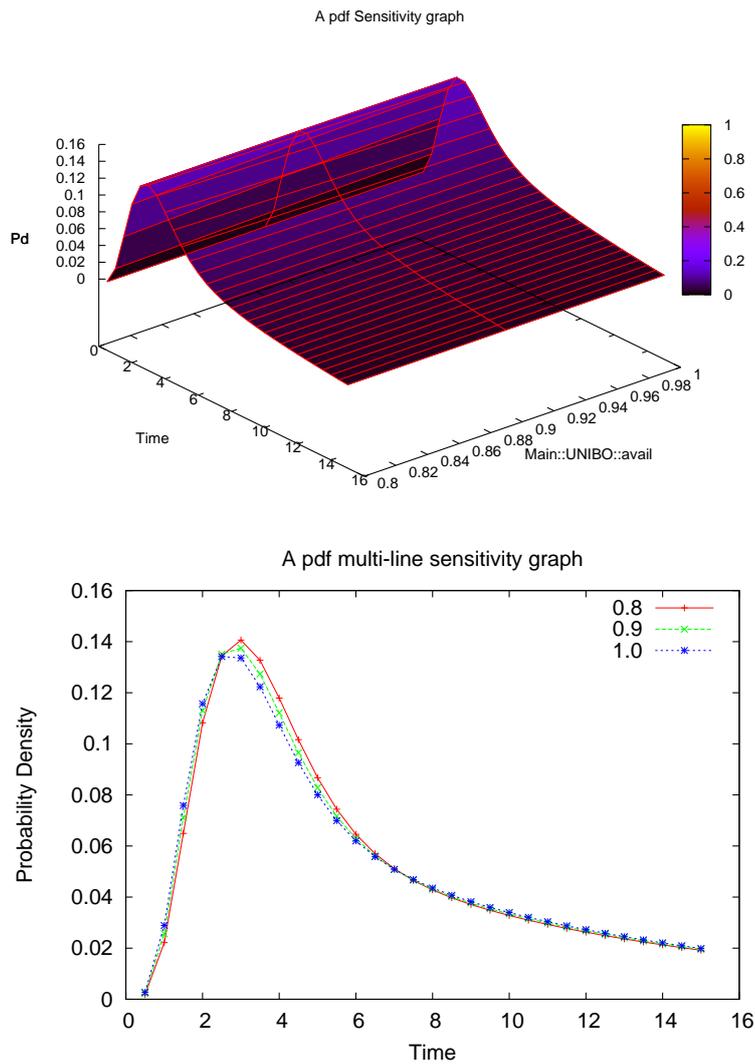


Figure 148: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-11-7-pdf.pdf and Main::UNIBO::avail-11-7-pdf-multi.pdf

## 2.13 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__SALLY__Idle
```

```
Main__Upload = Main__LMU__UPLOAD__Idle
```

```
Main__Download = Main__UEDIN__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

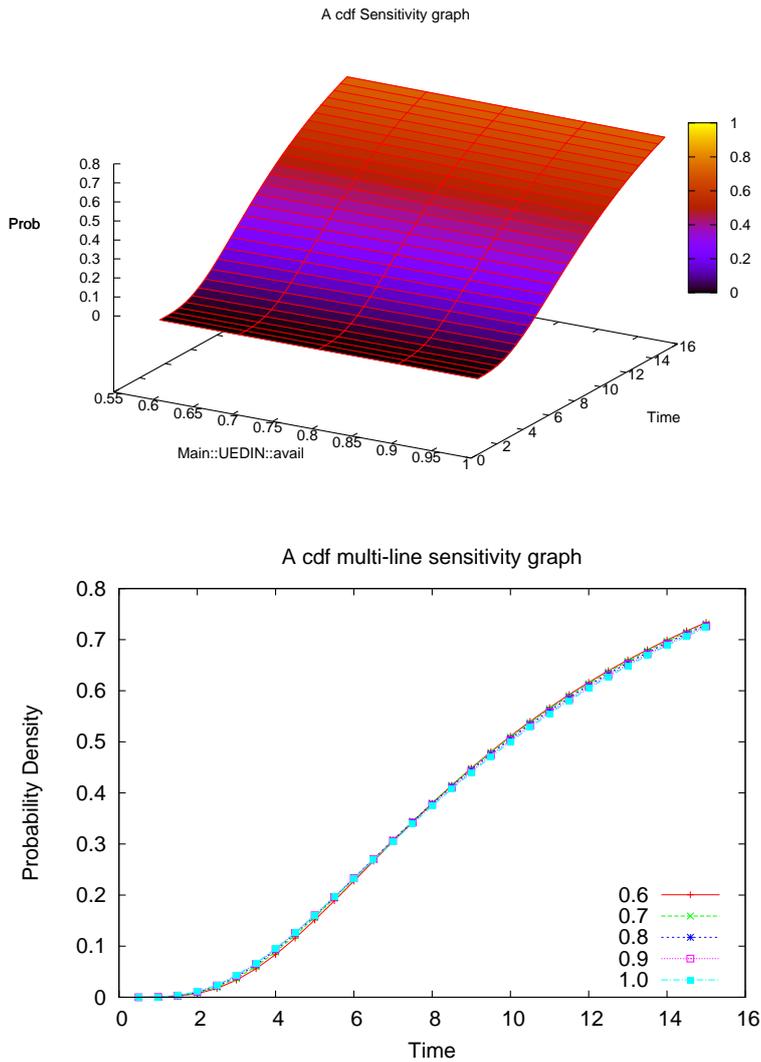


Figure 149: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-0-cdf.pdf and Main::UEDIN::avail-12-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

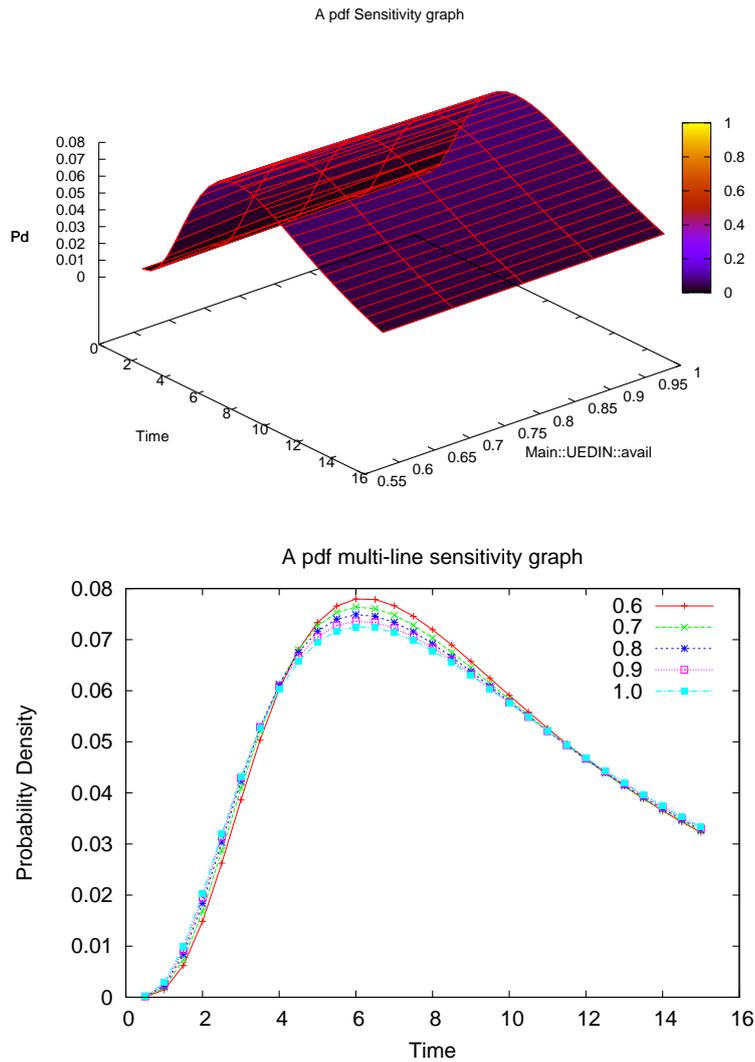


Figure 150: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-0-pdf.pdf and Main::UEDIN::avail-12-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

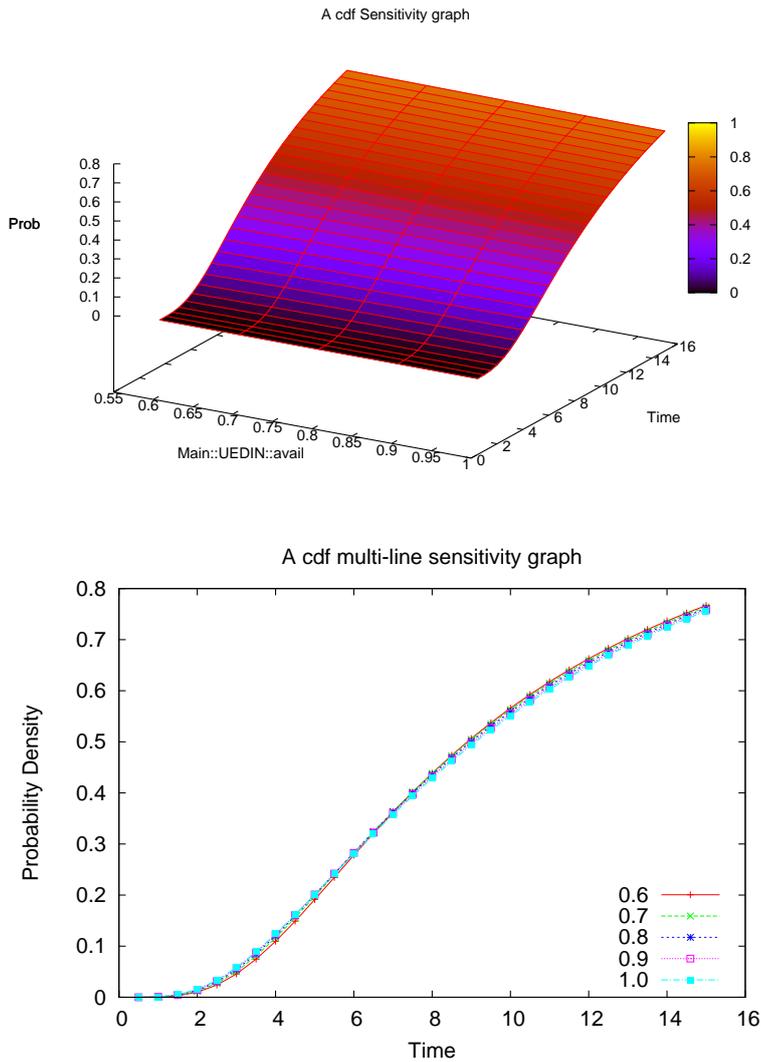


Figure 151: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-1-cdf.pdf and Main::UEDIN::avail-12-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

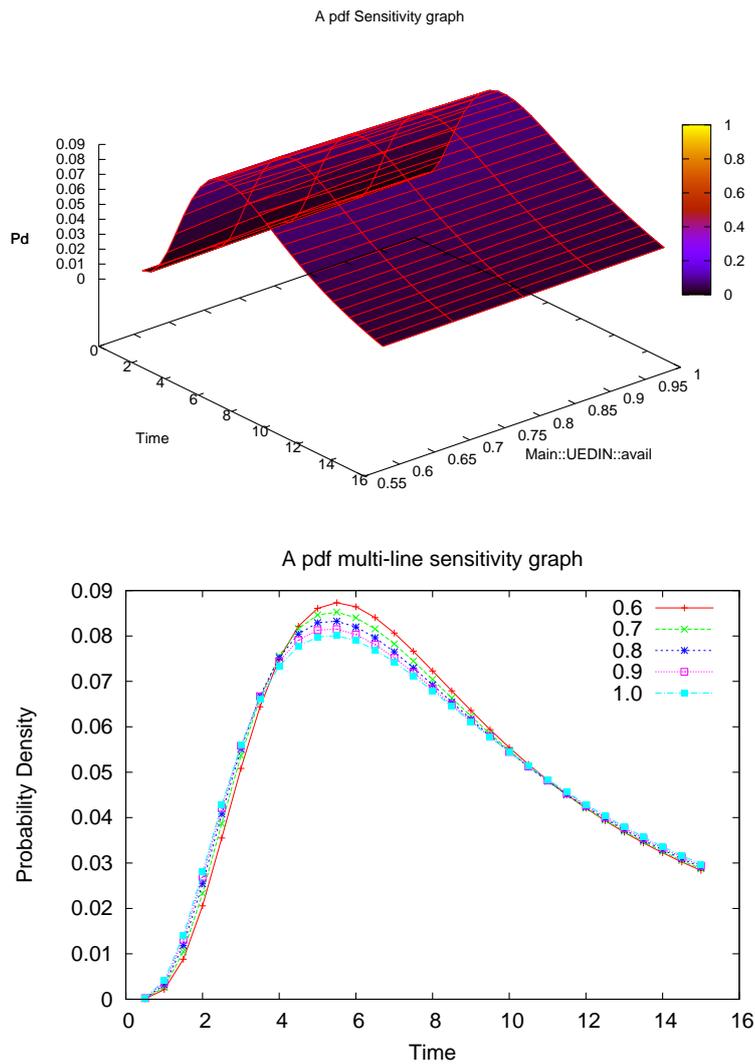


Figure 152: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-1-pdf.pdf and Main::UEDIN::avail-12-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

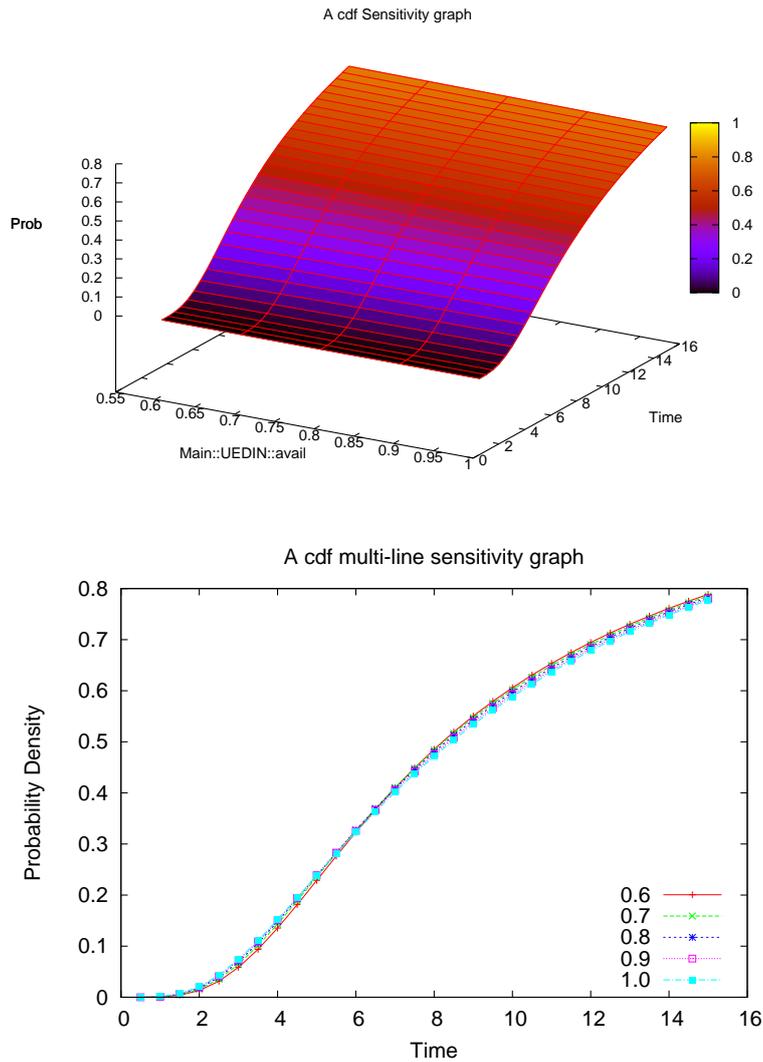


Figure 153: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-2-cdf.pdf and Main::UEDIN::avail-12-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

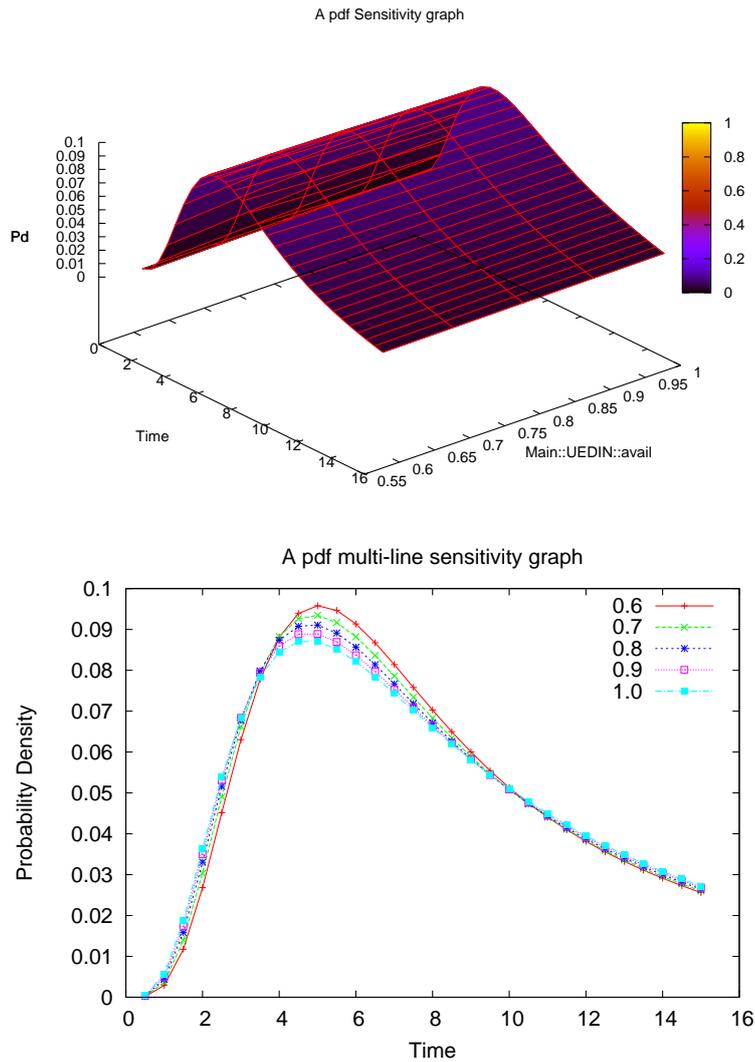


Figure 154: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-2-pdf.pdf and Main::UEDIN::avail-12-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

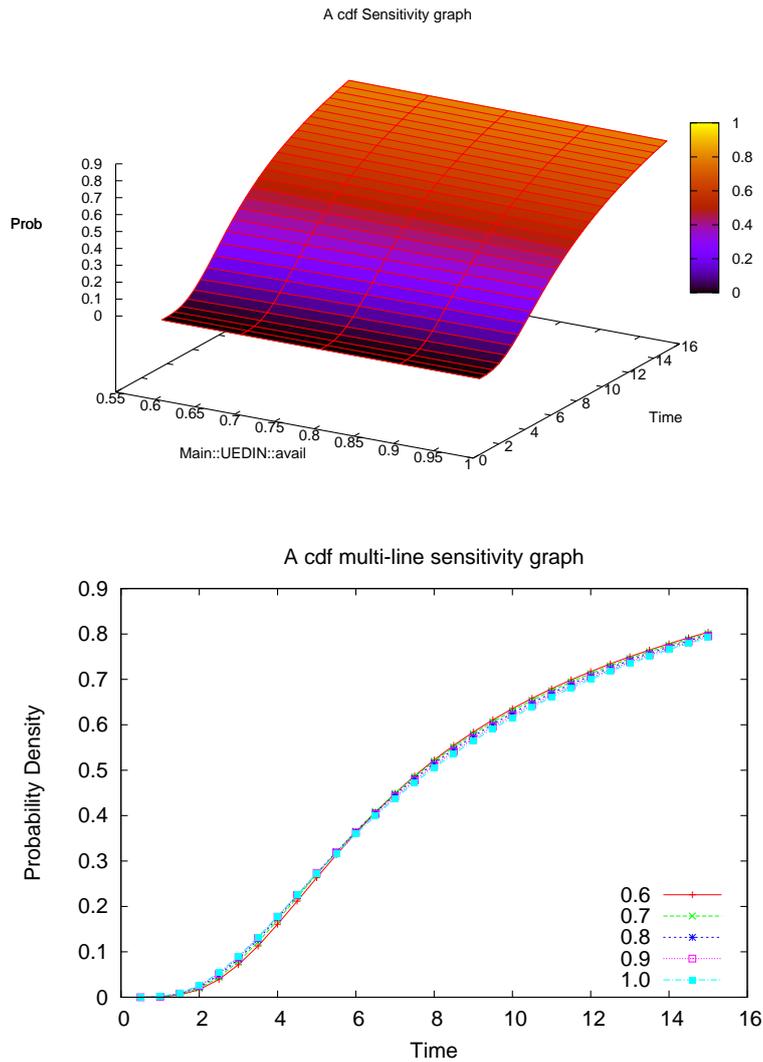


Figure 155: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-3-cdf.pdf and Main::UEDIN::avail-12-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srcmc model) are as follows:

Main::LMU::avail = 0.8

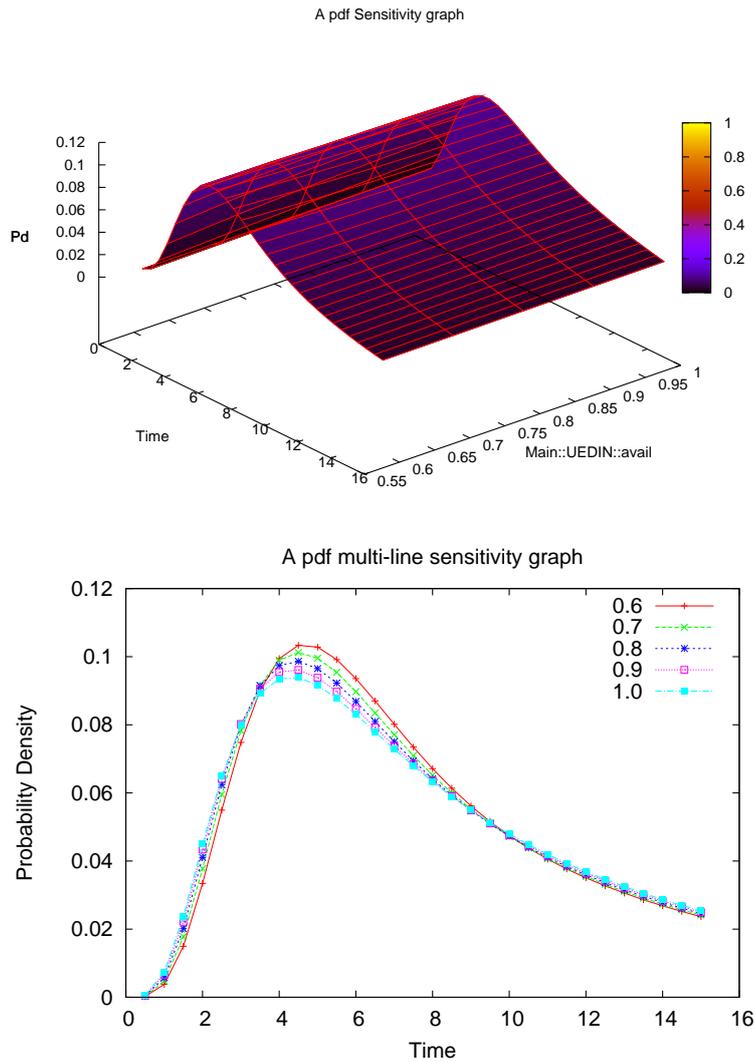


Figure 156: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-3-pdf.pdf and Main::UEDIN::avail-12-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

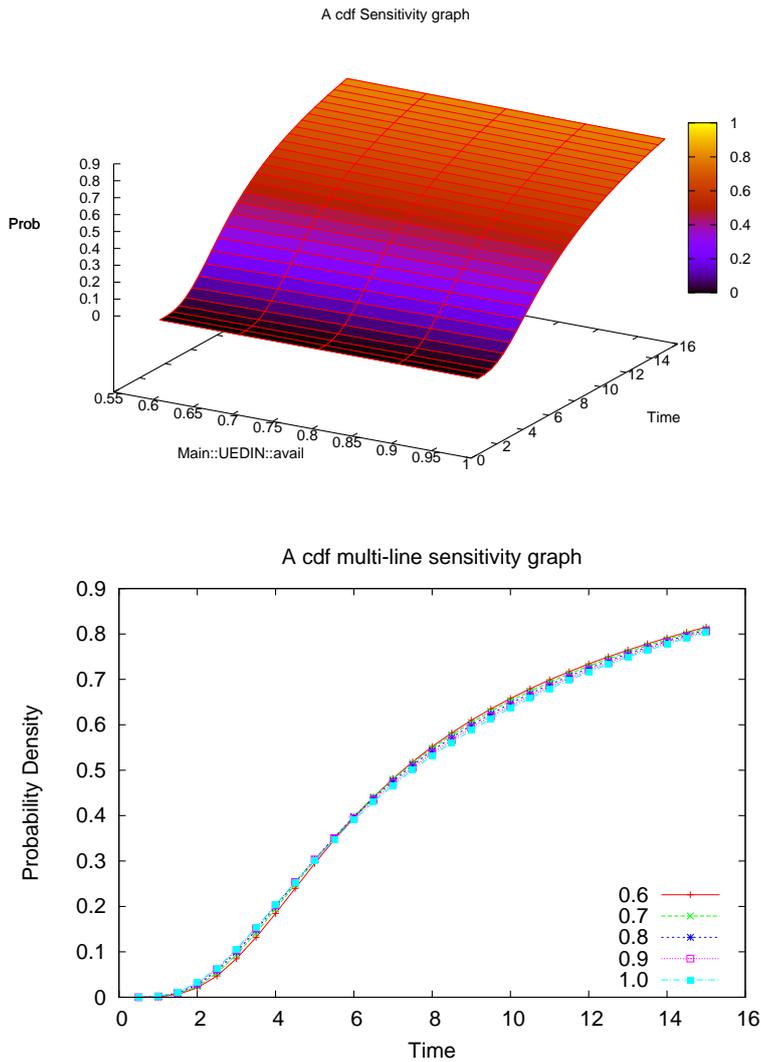


Figure 157: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-4-cdf.pdf and Main::UEDIN::avail-12-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srcmc model) are as follows:

Main::LMU::avail = 0.9

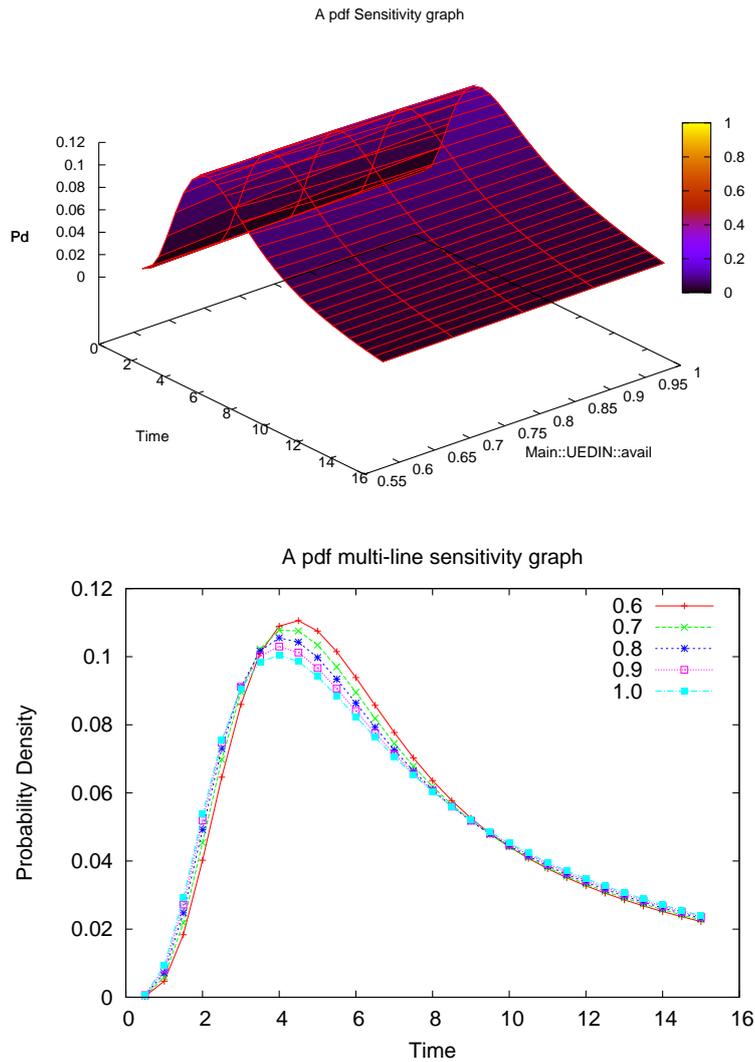


Figure 158: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-12-4-pdf.pdf and Main::UEDIN::avail-12-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

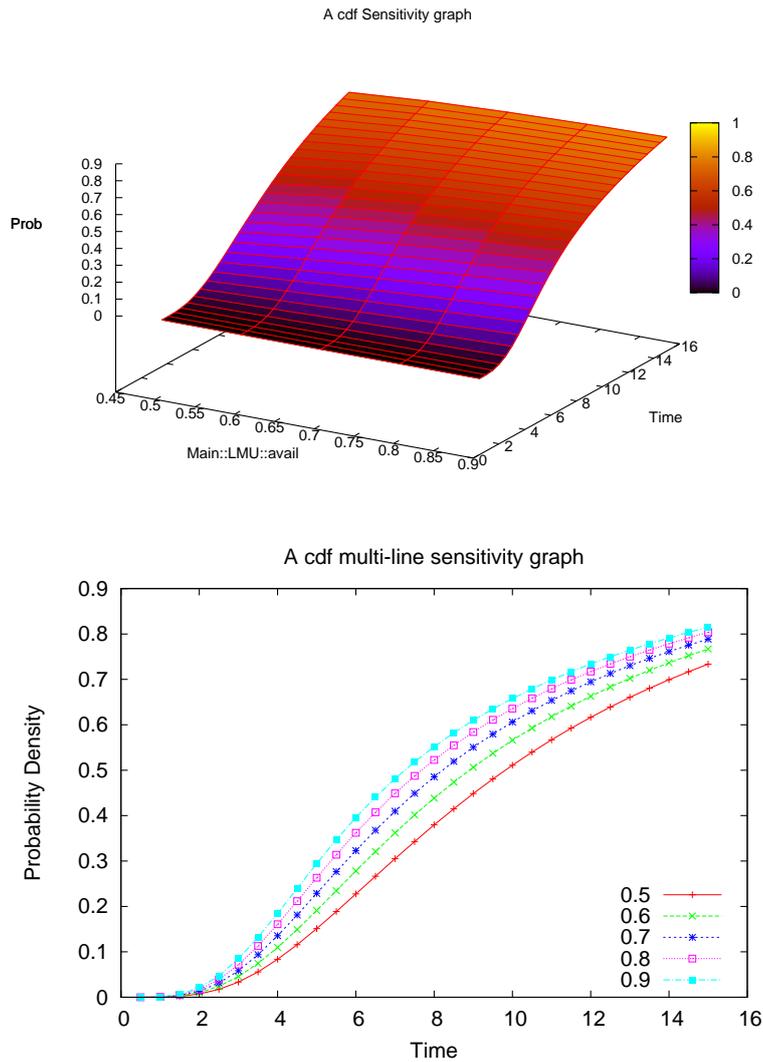


Figure 159: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-5-cdf.pdf and Main::LMU::avail-12-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

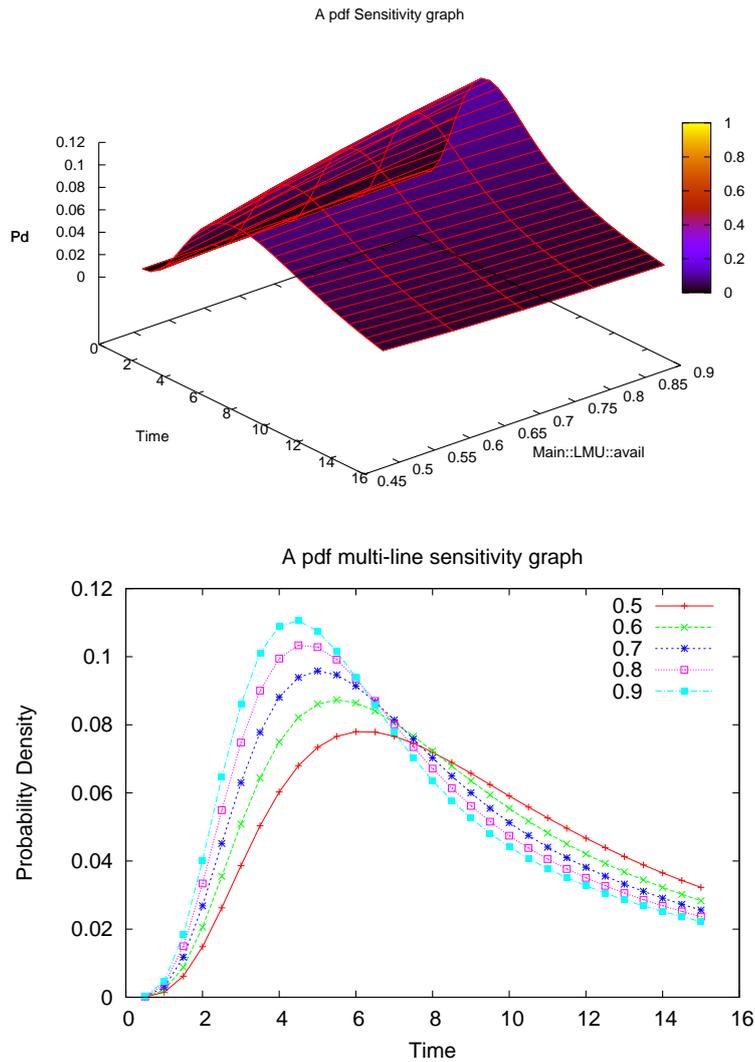


Figure 160: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-5-pdf.pdf and Main::LMU::avail-12-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

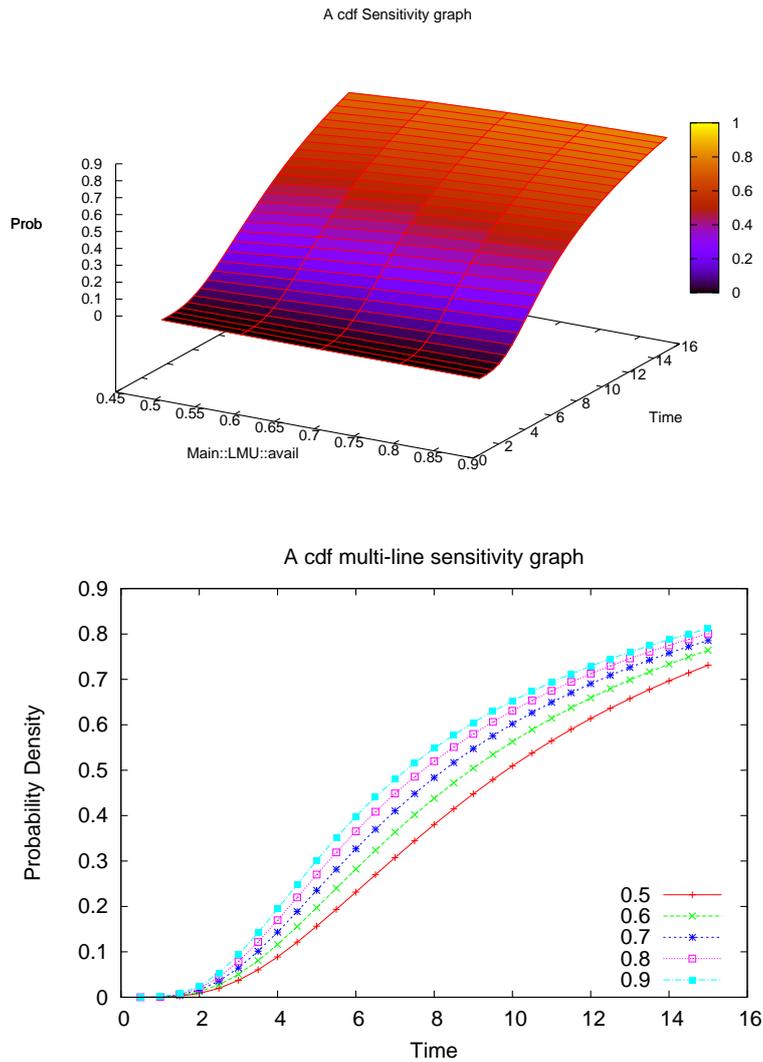


Figure 161: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-6-cdf.pdf and Main::LMU::avail-12-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

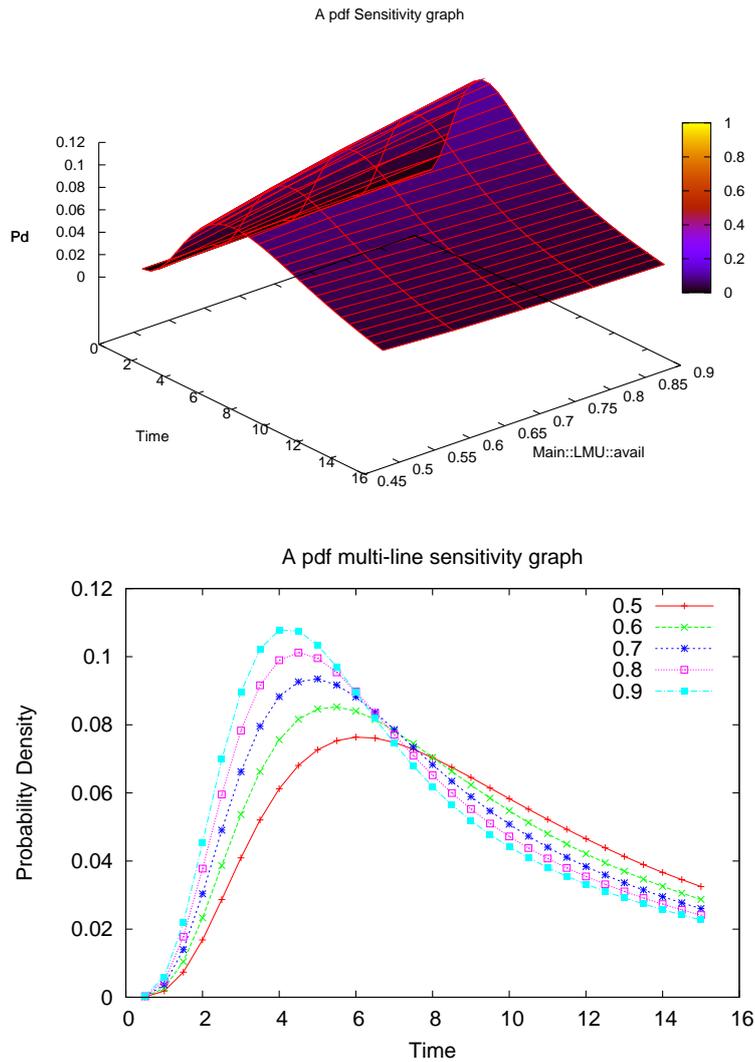


Figure 162: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-6-pdf.pdf and Main::LMU::avail-12-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

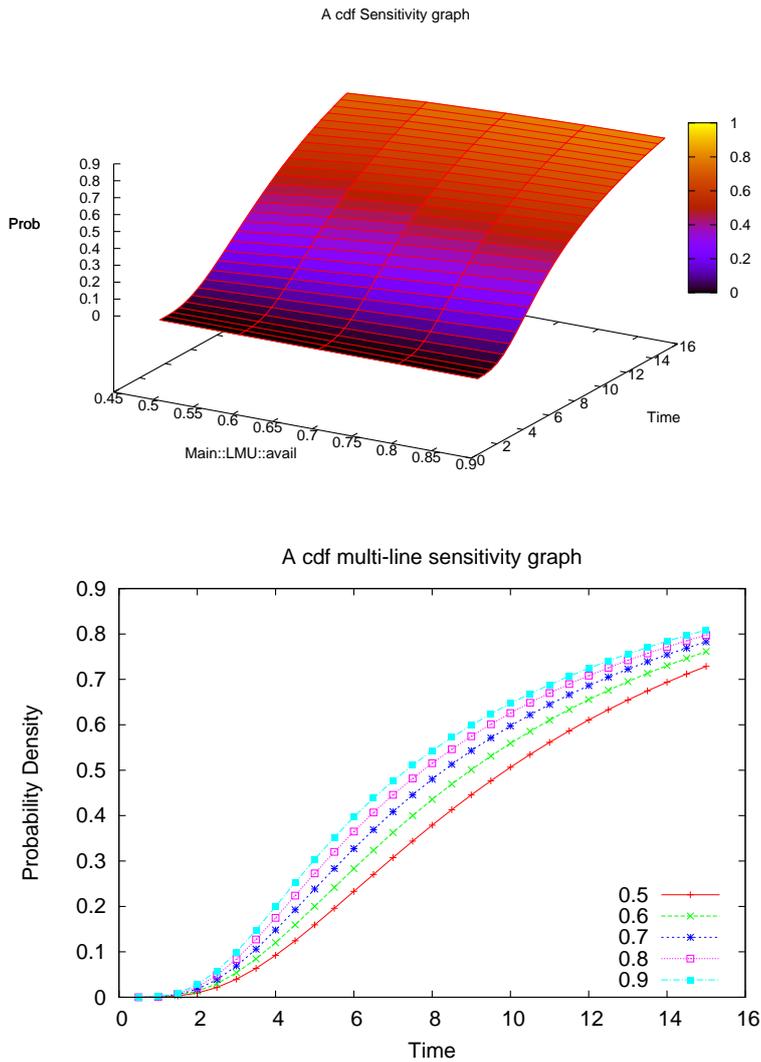


Figure 163: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-7-cdf.pdf and Main::LMU::avail-12-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

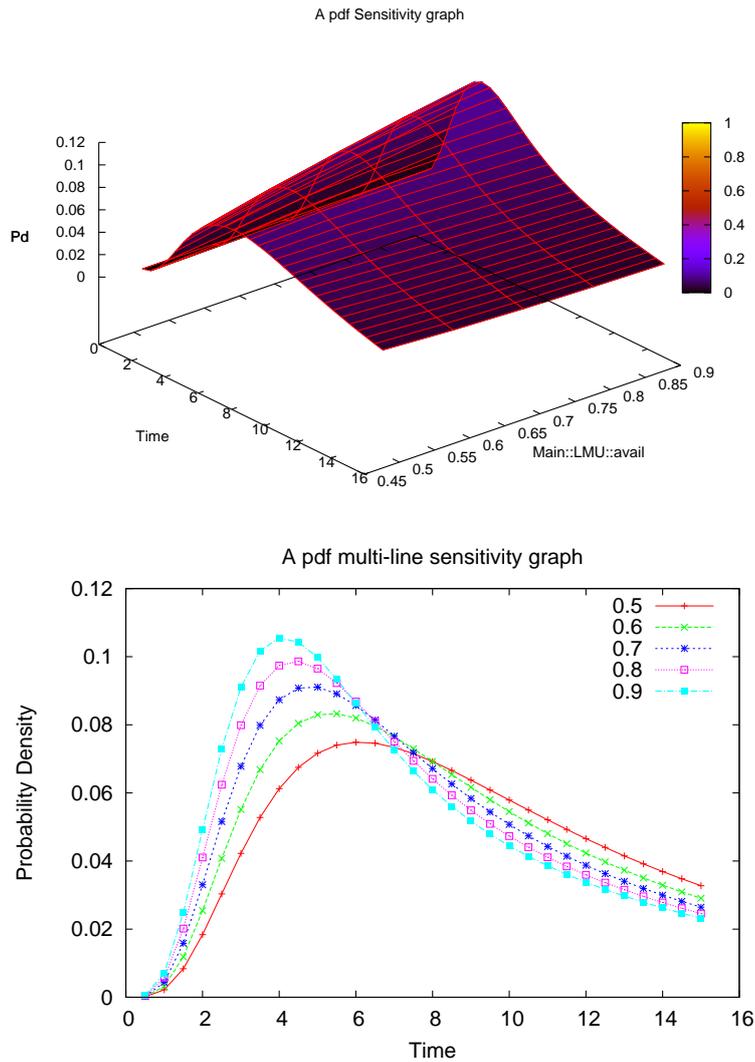


Figure 164: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-7-pdf.pdf and Main::LMU::avail-12-7-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

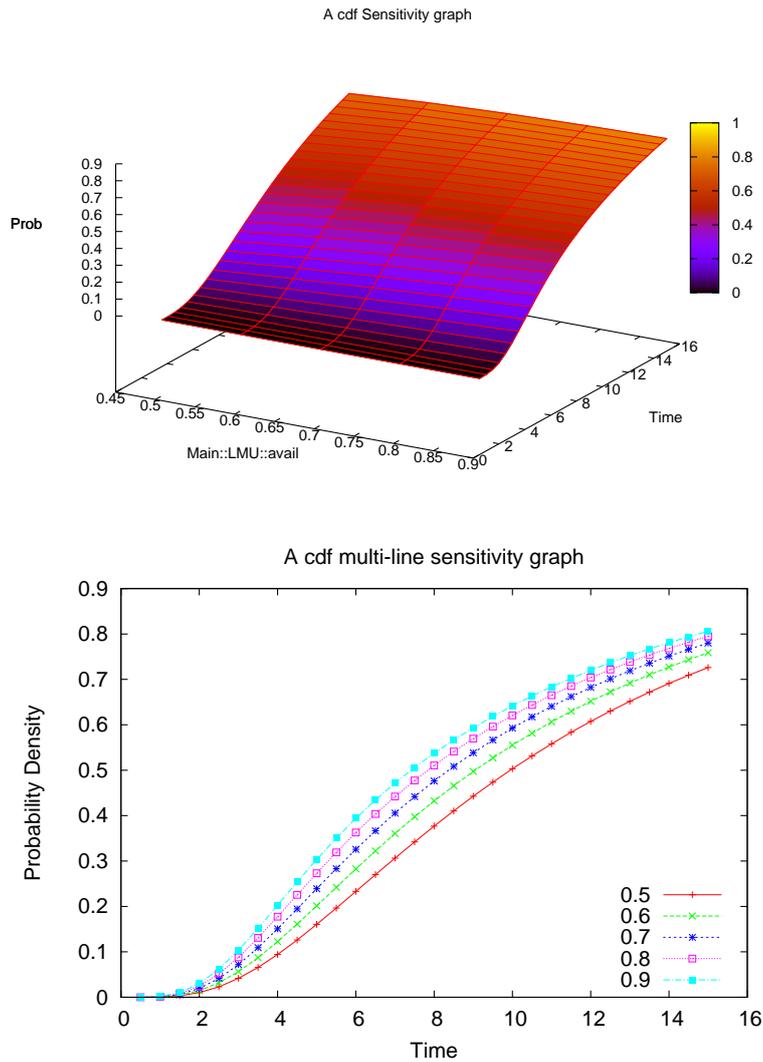


Figure 165: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-8-cdf.pdf and Main::LMU::avail-12-8-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

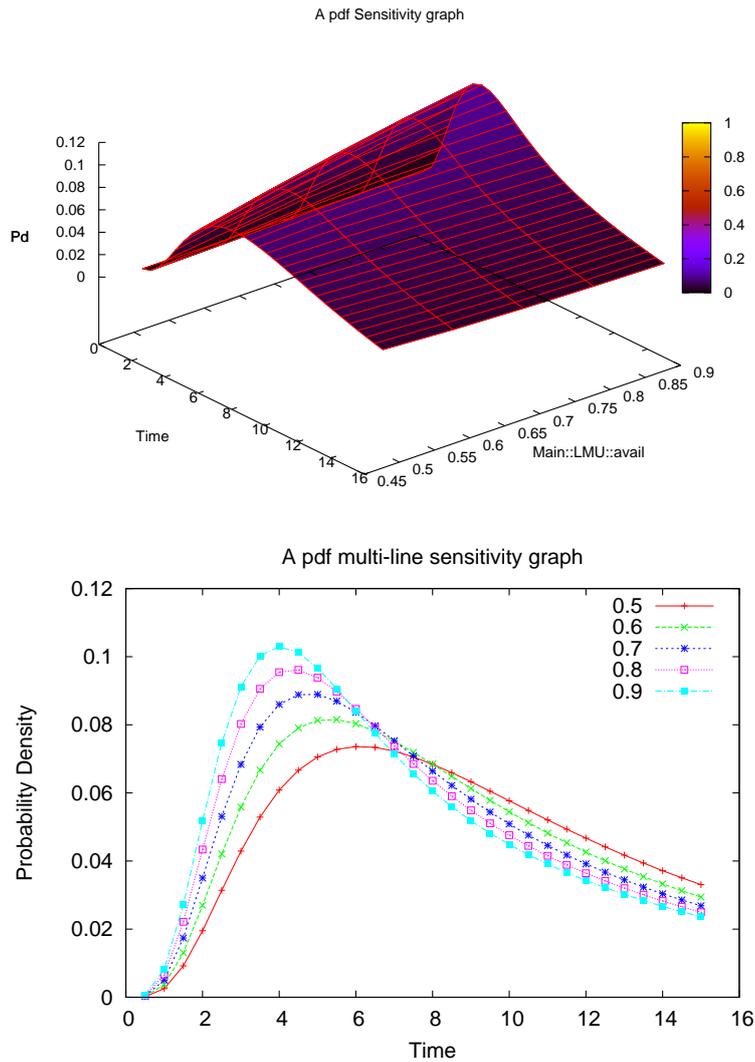


Figure 166: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-8-pdf.pdf and Main::LMU::avail-12-8-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

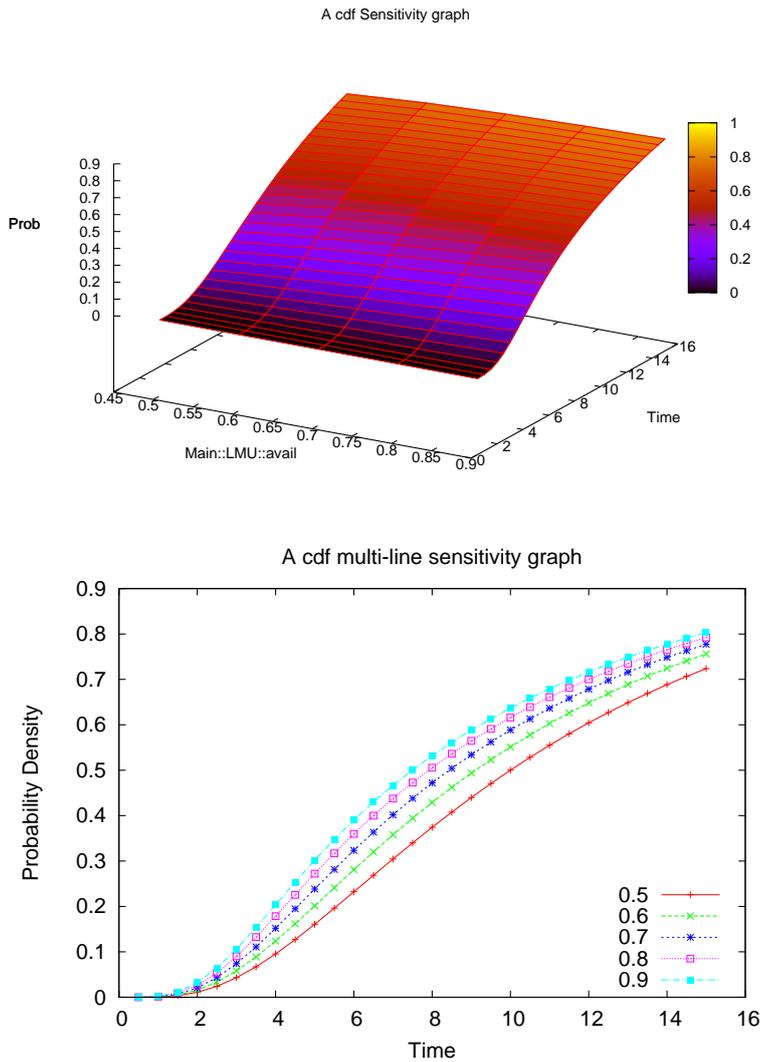


Figure 167: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-9-cdf.pdf and Main::LMU::avail-12-9-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

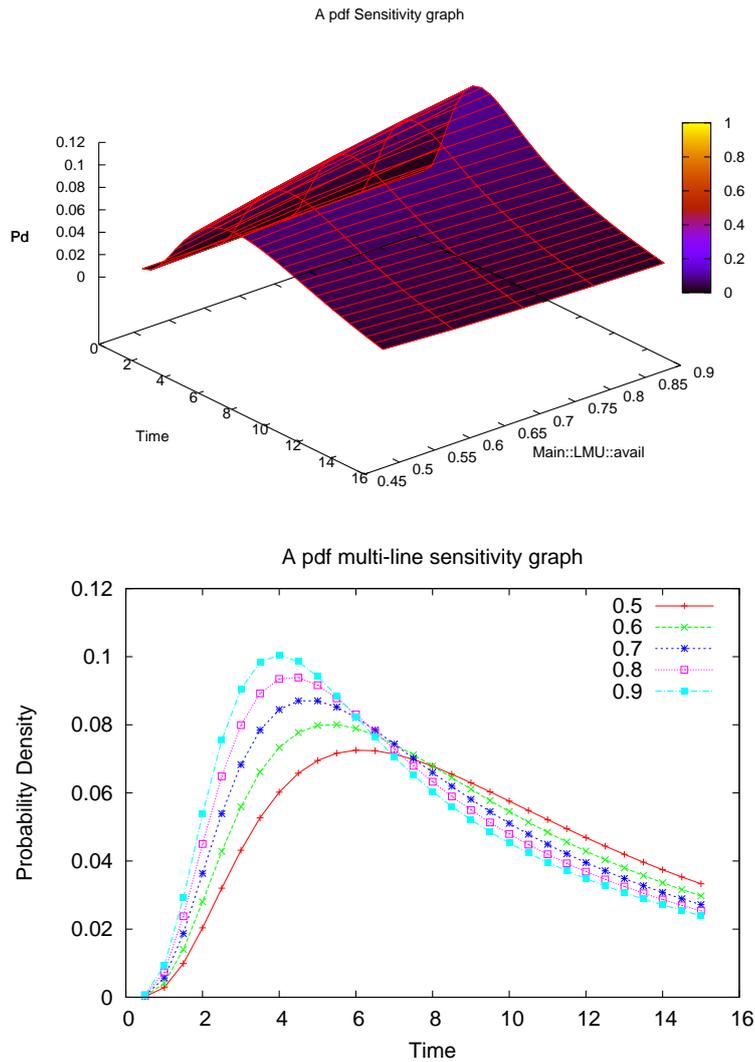


Figure 168: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-12-9-pdf.pdf and Main::LMU::avail-12-9-pdf-multi.pdf

## 2.14 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__SALLY__Idle  
Main__Upload = Main__LMU__UPLOAD__Idle  
Main__Download = Main__LMU__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::LMU::avail.

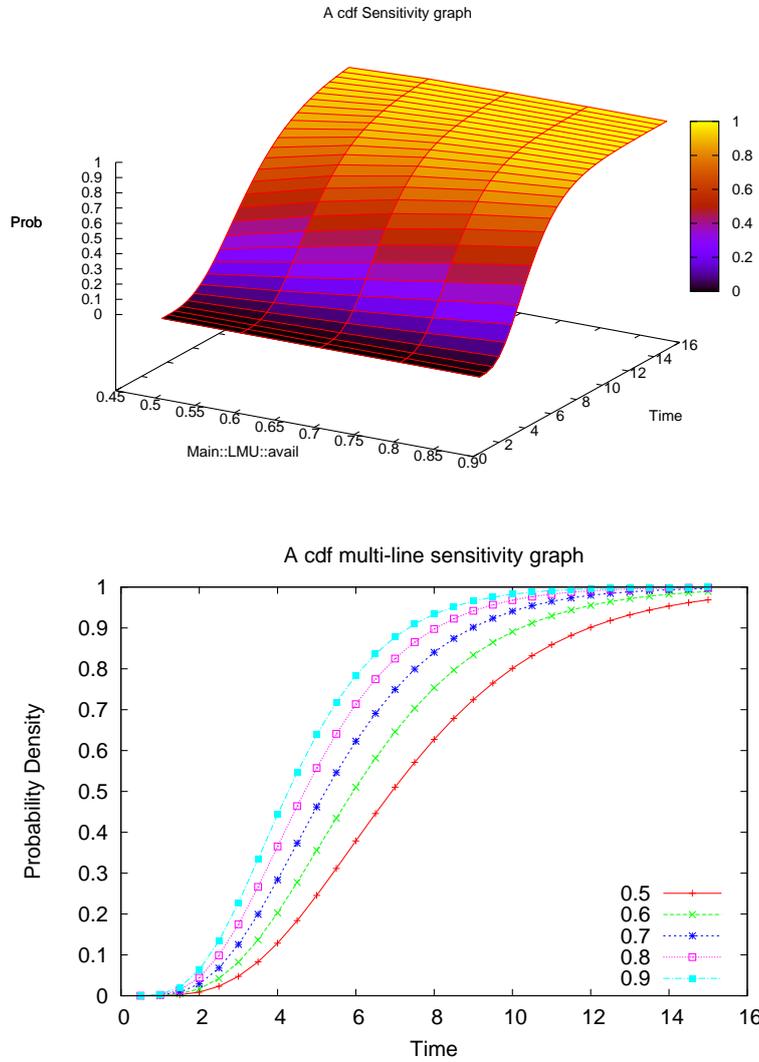


Figure 169: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-13-0-cdf.pdf and Main::LMU::avail-13-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail.

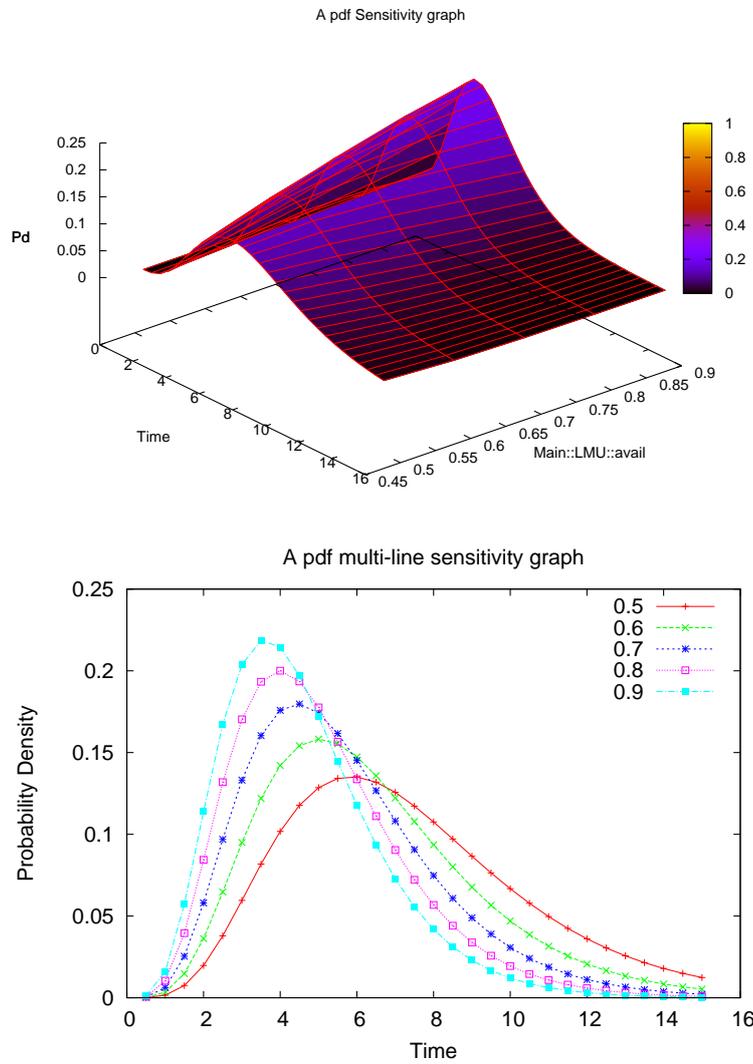


Figure 170: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-13-0-pdf.pdf and Main::LMU::avail-13-0-pdf-multi.pdf

## 2.15 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__SALLY__Idle`

`Main__Upload = Main__LMU__UPLOAD__Idle`

`Main__Download = Main__UNIBO__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

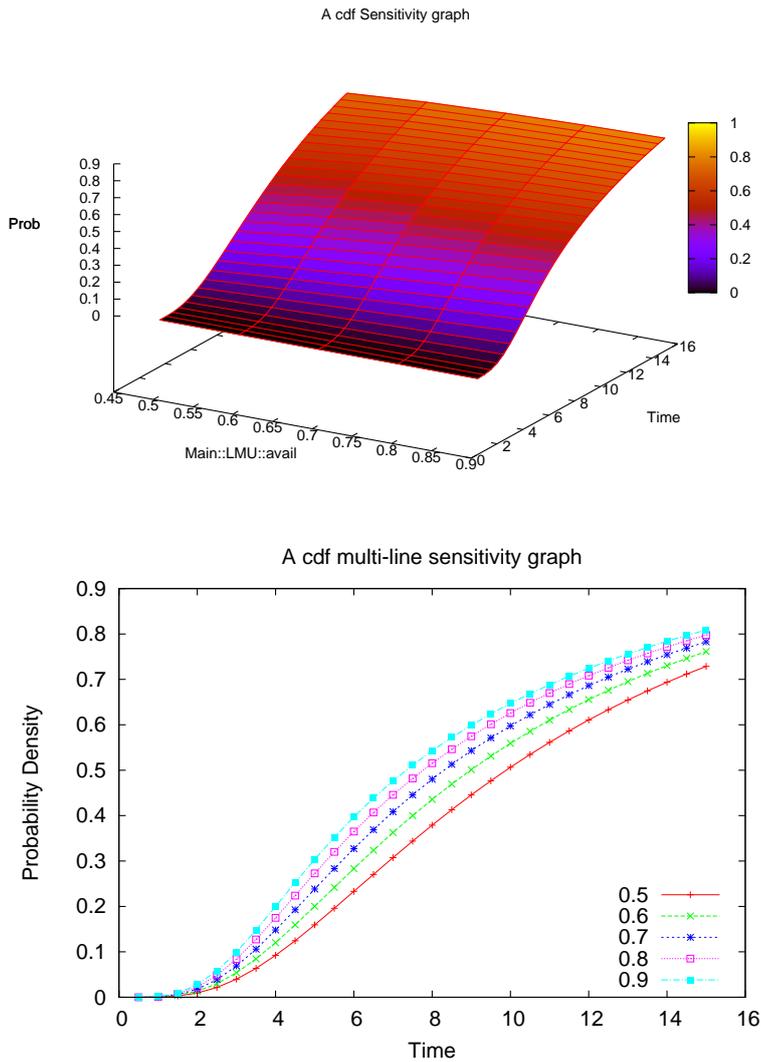


Figure 171: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-14-0-cdf.pdf and Main::LMU::avail-14-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

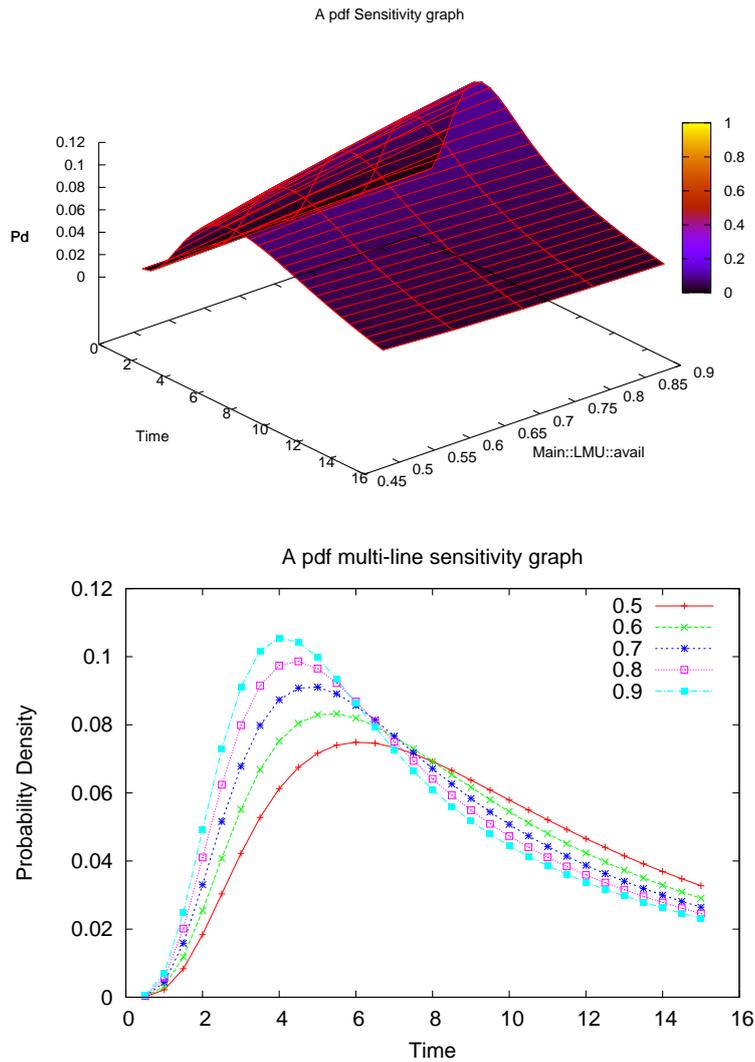


Figure 172: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-14-0-pdf.pdf and Main::LMU::avail-14-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

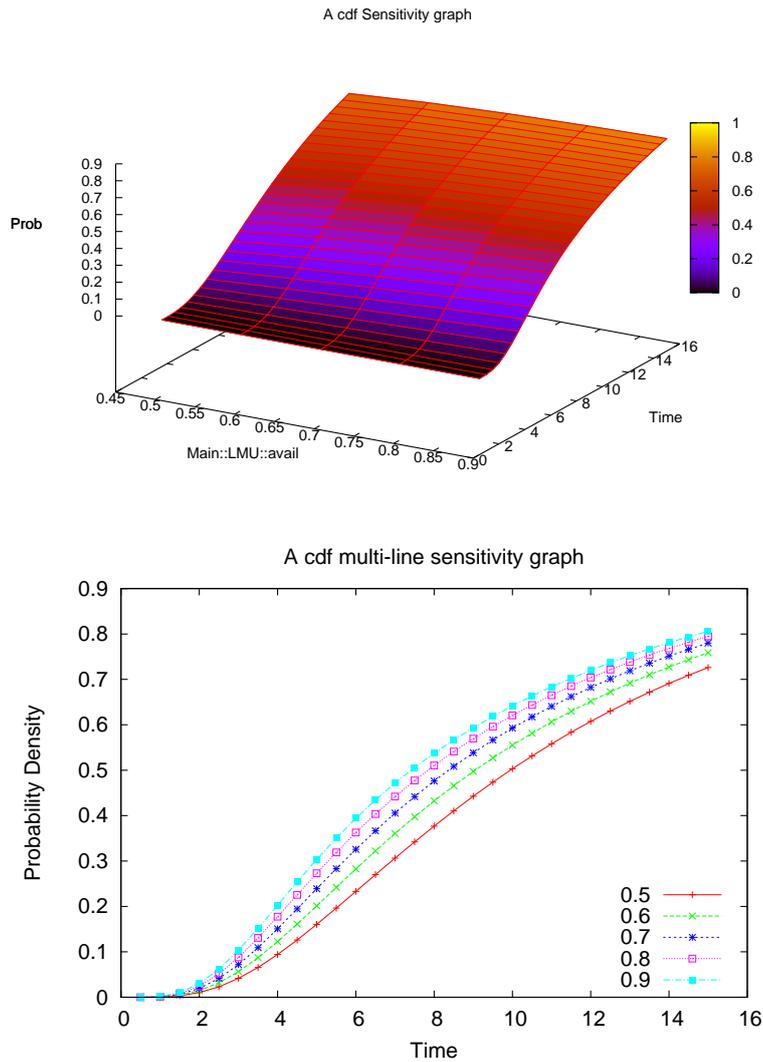


Figure 173: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-14-1-cdf.pdf and Main::LMU::avail-14-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

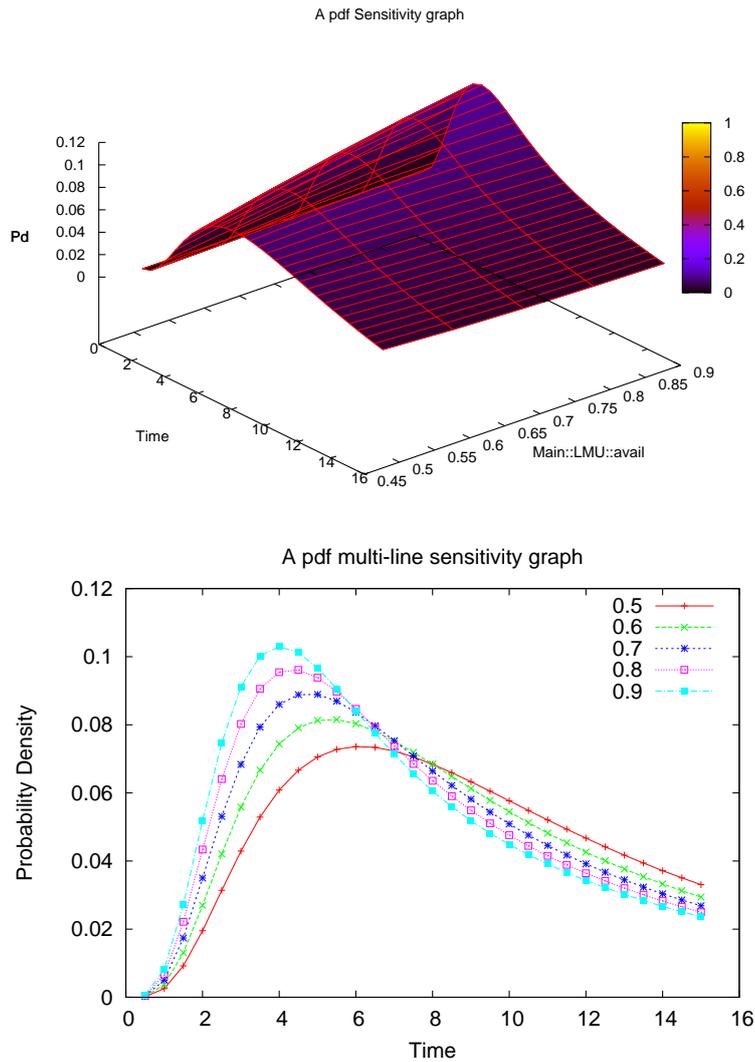


Figure 174: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-14-1-pdf.pdf and Main::LMU::avail-14-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UNIBO::avail = 1.0

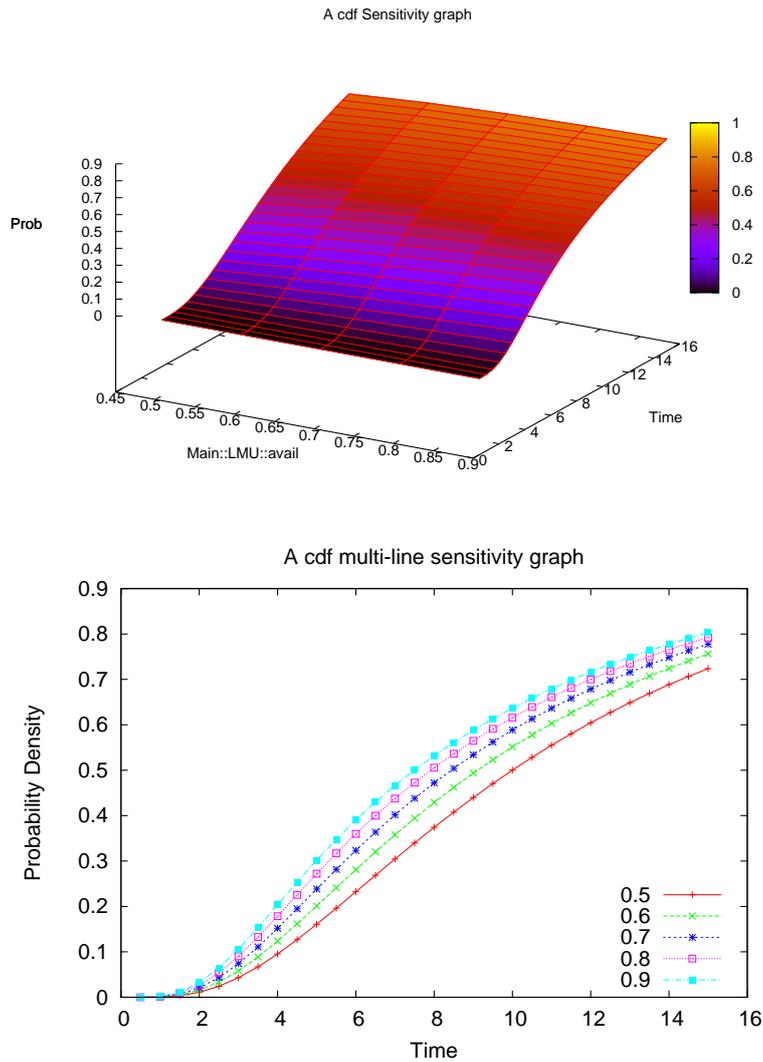


Figure 175: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-14-2-cdf.pdf and Main::LMU::avail-14-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

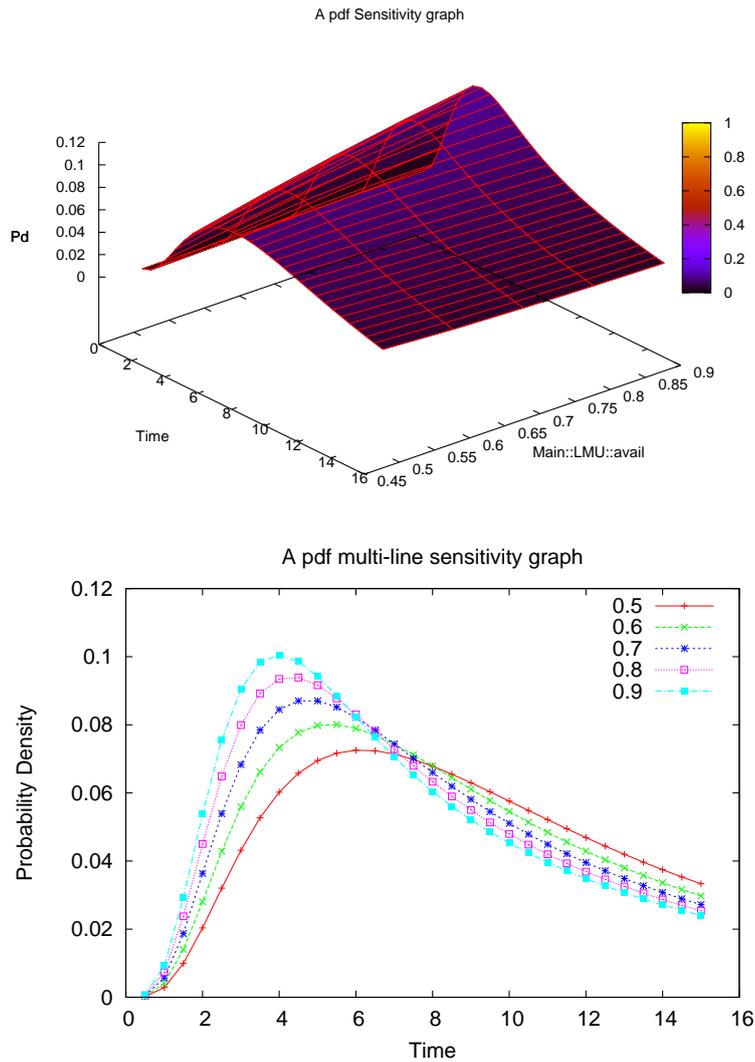


Figure 176: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-14-2-pdf.pdf and Main::LMU::avail-14-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

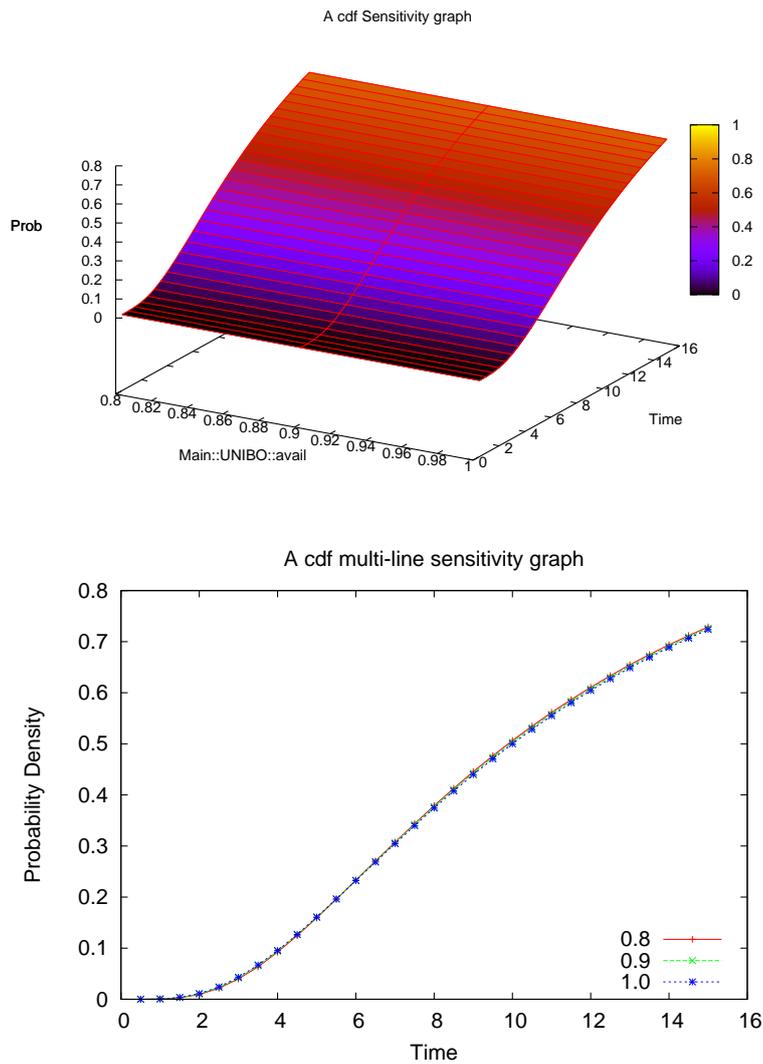


Figure 177: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-3-cdf.pdf and Main::UNIBO::avail-14-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

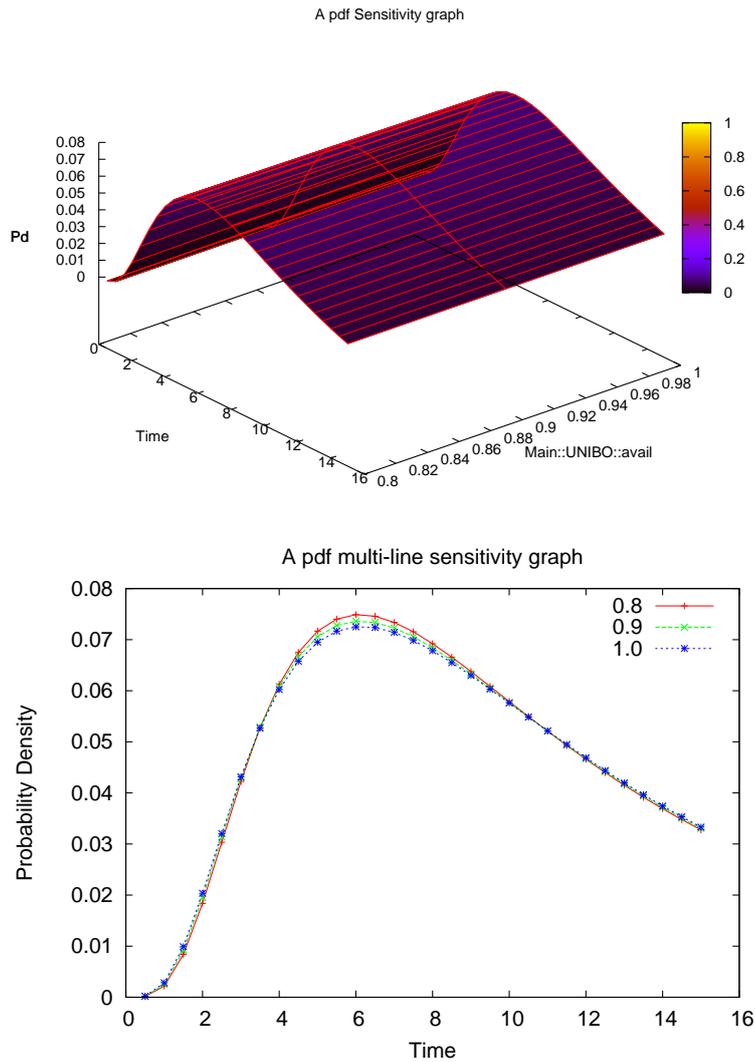


Figure 178: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-3-pdf.pdf and Main::UNIBO::avail-14-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

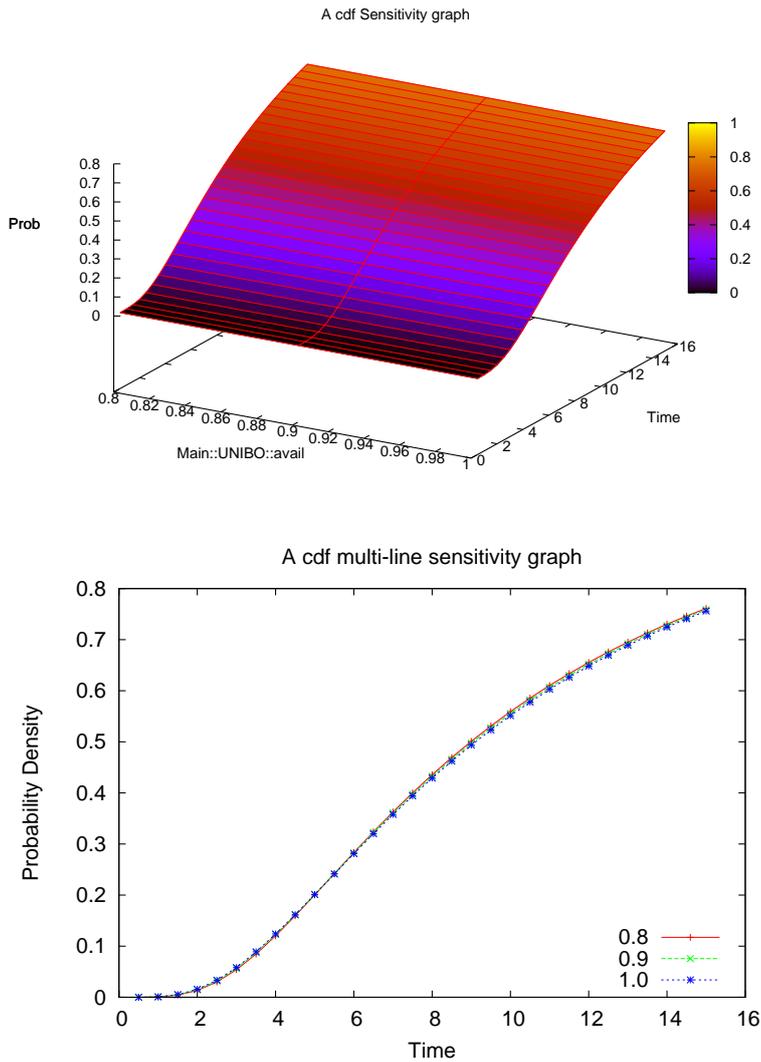


Figure 179: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-4-cdf.pdf and Main::UNIBO::avail-14-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

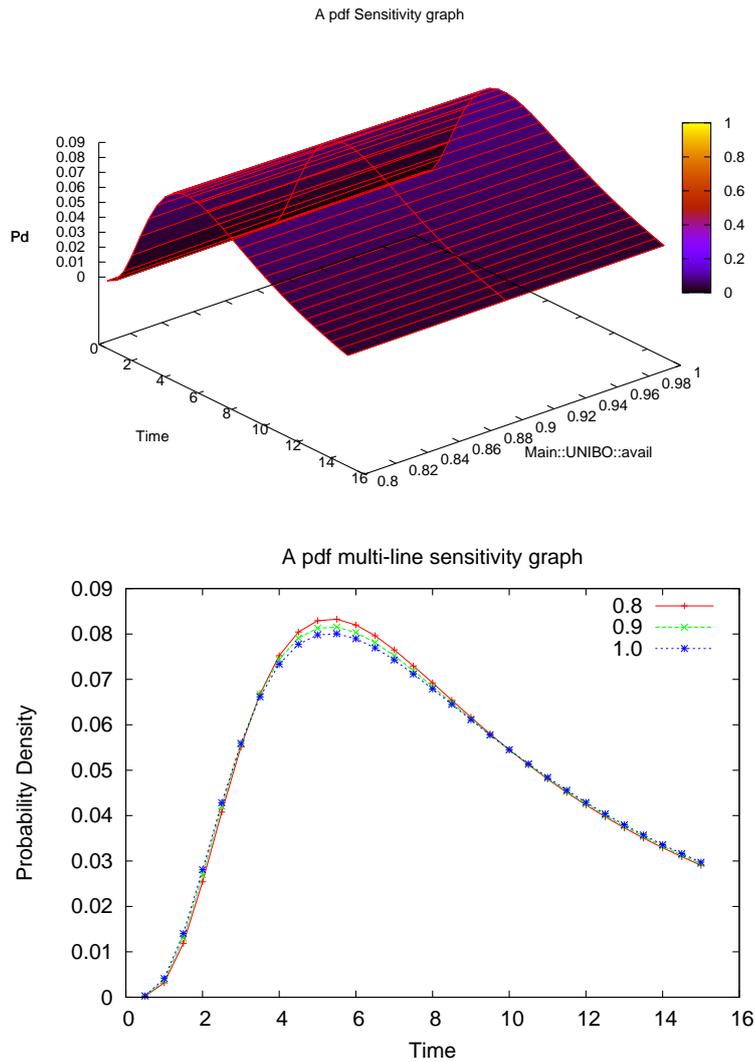


Figure 180: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-4-pdf.pdf and Main::UNIBO::avail-14-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

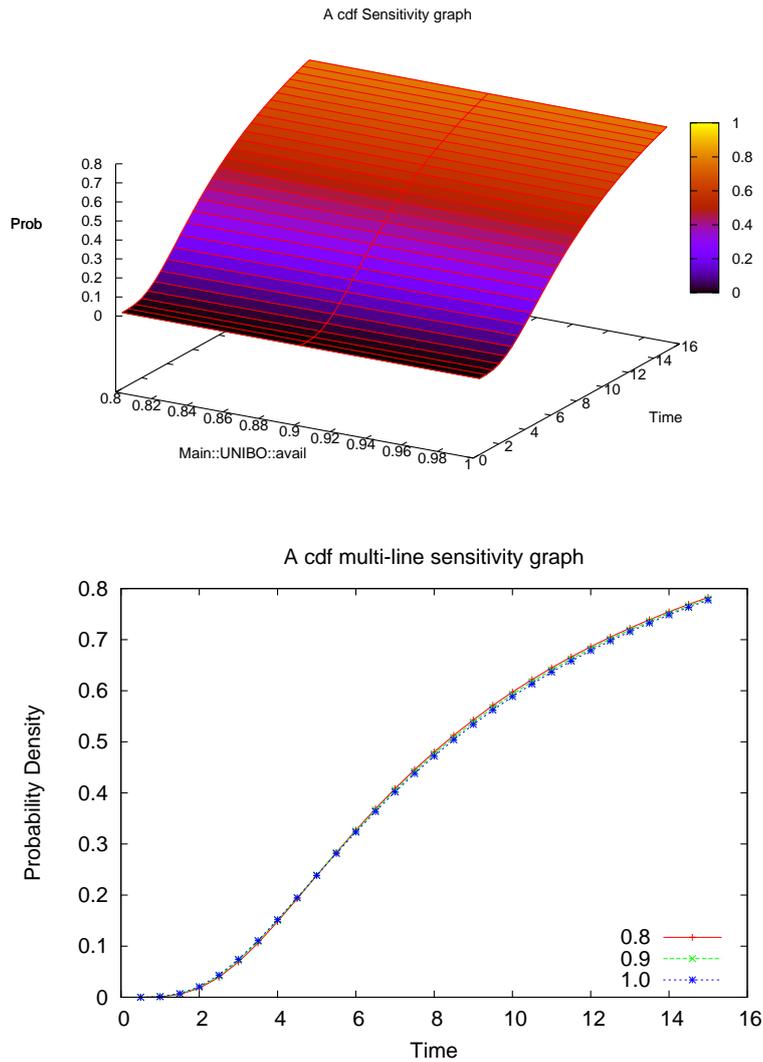


Figure 181: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-5-cdf.pdf and Main::UNIBO::avail-14-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

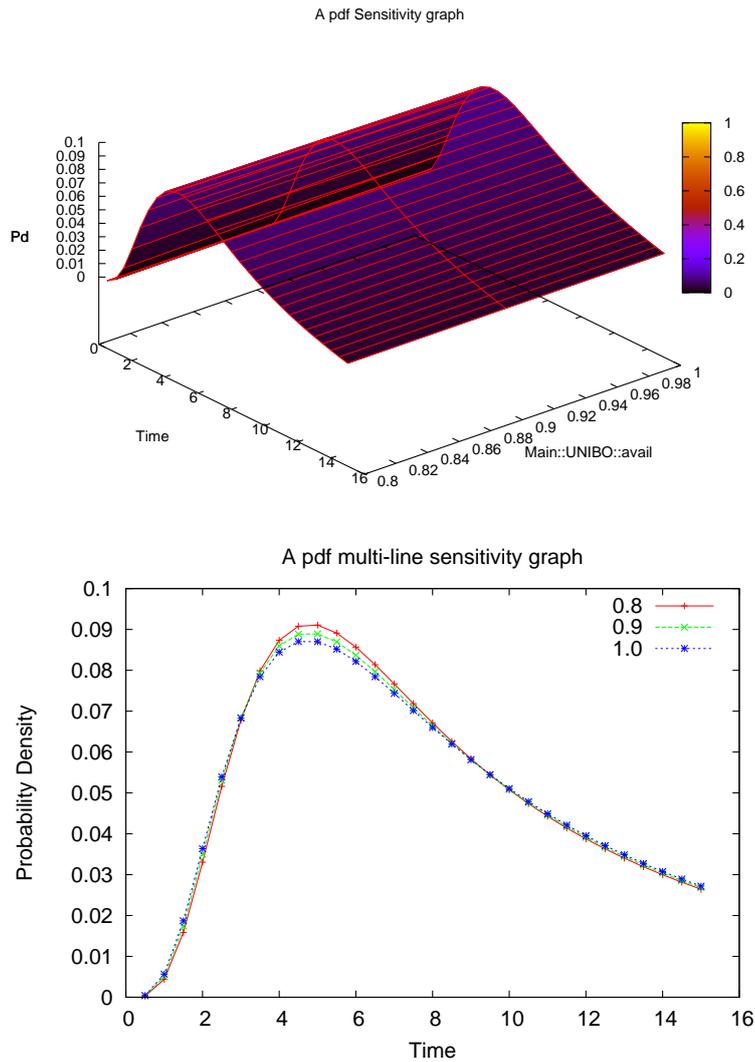


Figure 182: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-5-pdf.pdf and Main::UNIBO::avail-14-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

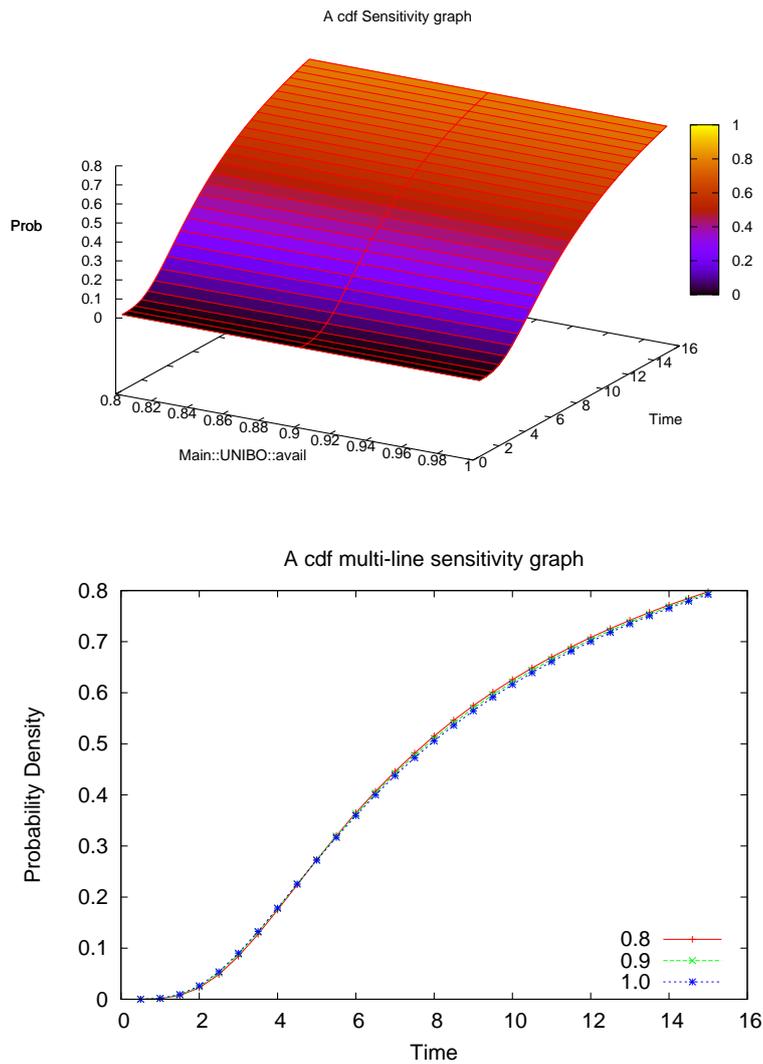


Figure 183: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-6-cdf.pdf and Main::UNIBO::avail-14-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

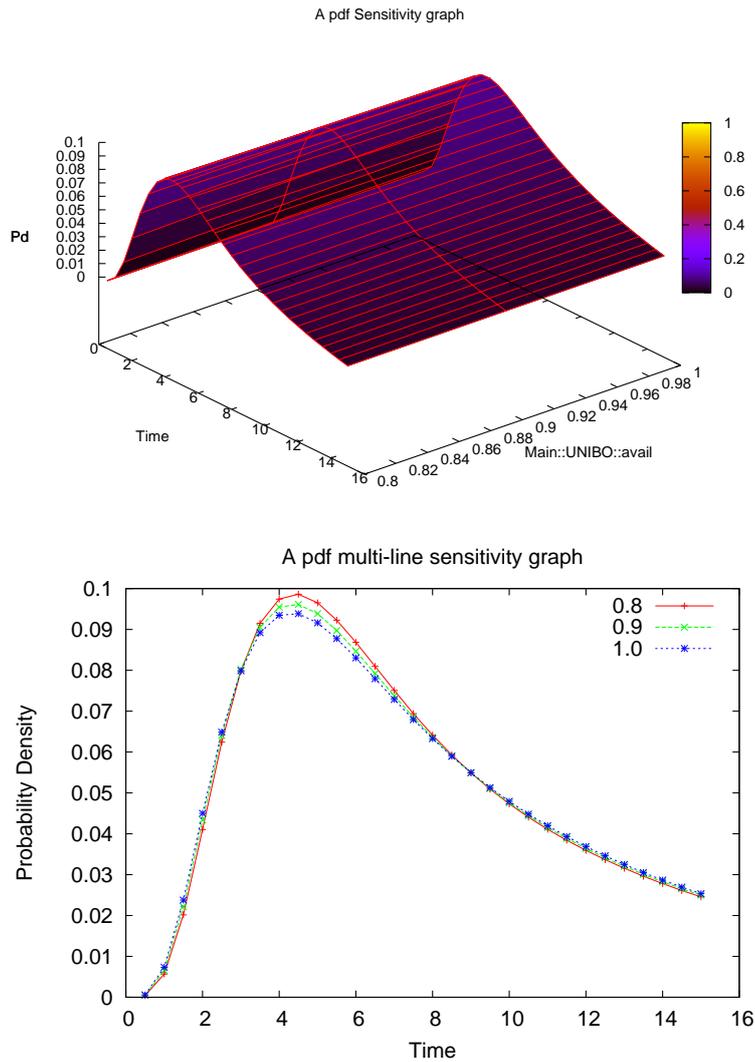


Figure 184: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-6-pdf.pdf and Main::UNIBO::avail-14-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

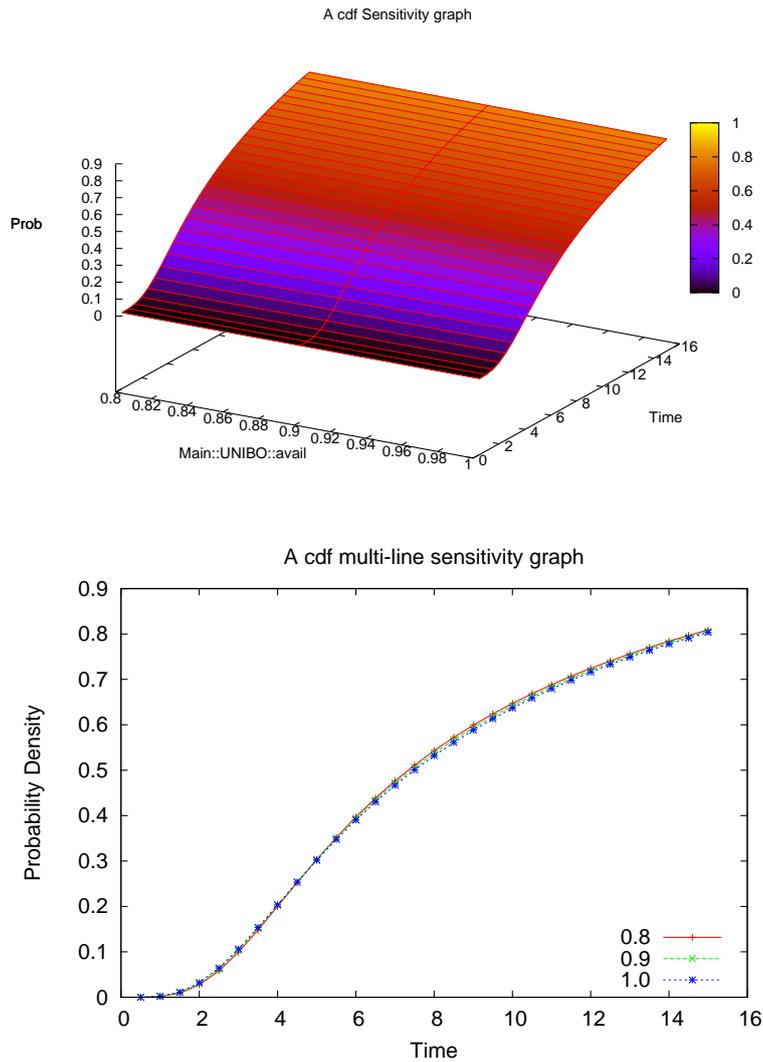


Figure 185: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-7-cdf.pdf and Main::UNIBO::avail-14-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

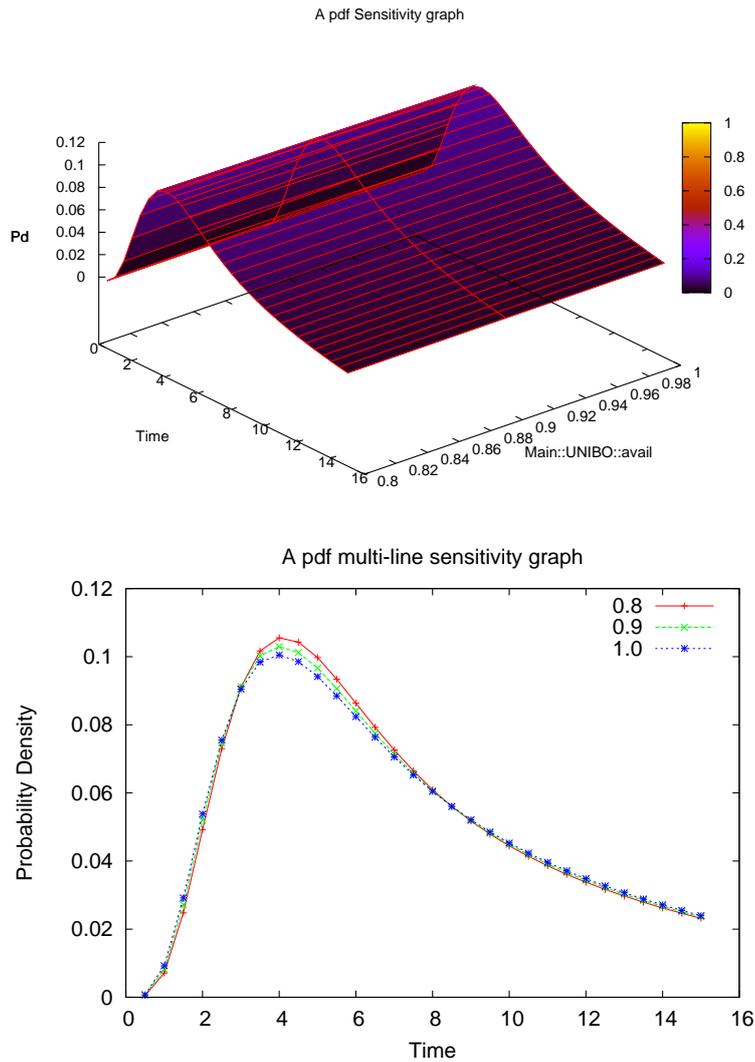


Figure 186: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-14-7-pdf.pdf and Main::UNIBO::avail-14-7-pdf-multi.pdf

## 2.16 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__SALLY__Idle`

`Main__Upload = Main__UNIBO__UPLOAD__Idle`

`Main__Download = Main__UEDIN__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

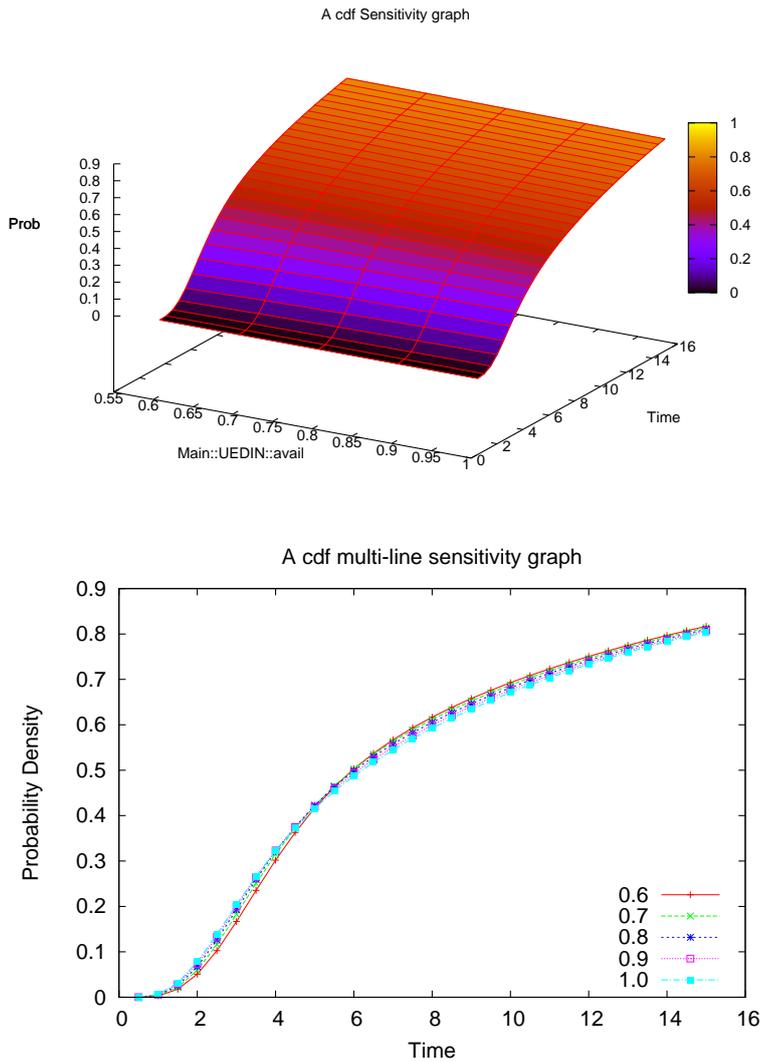


Figure 187: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-15-0-cdf.pdf and Main::UEDIN::avail-15-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srcm model) are as follows:

Main::UNIBO::avail = 0.8

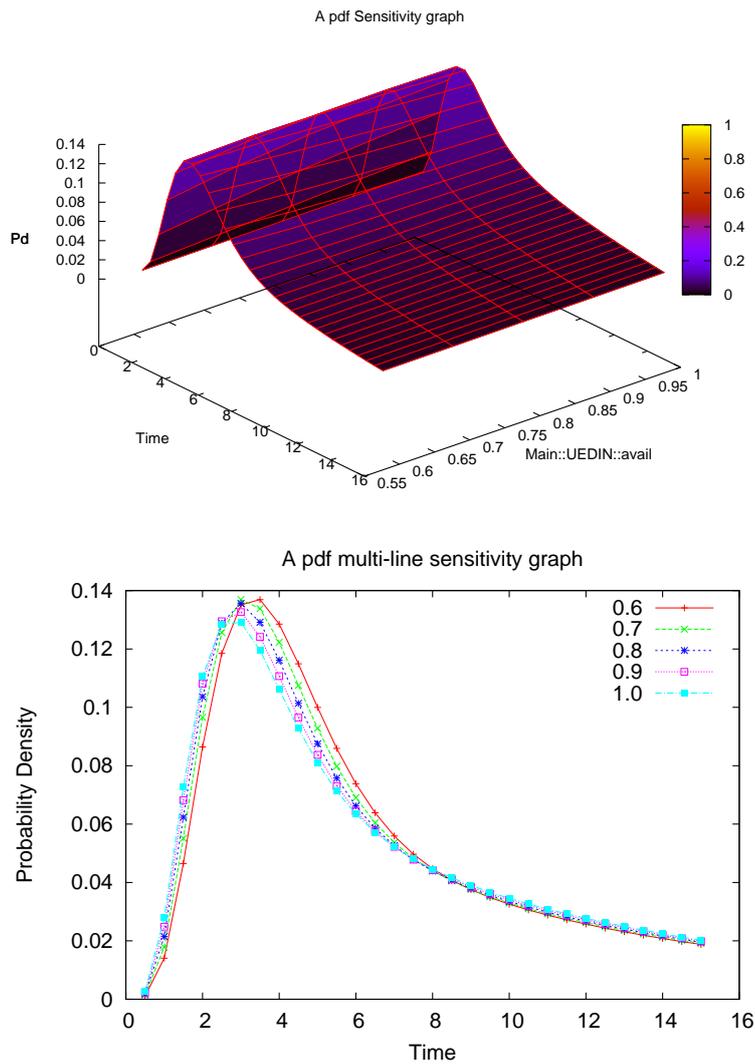


Figure 188: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-15-0-pdf.pdf and Main::UEDIN::avail-15-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

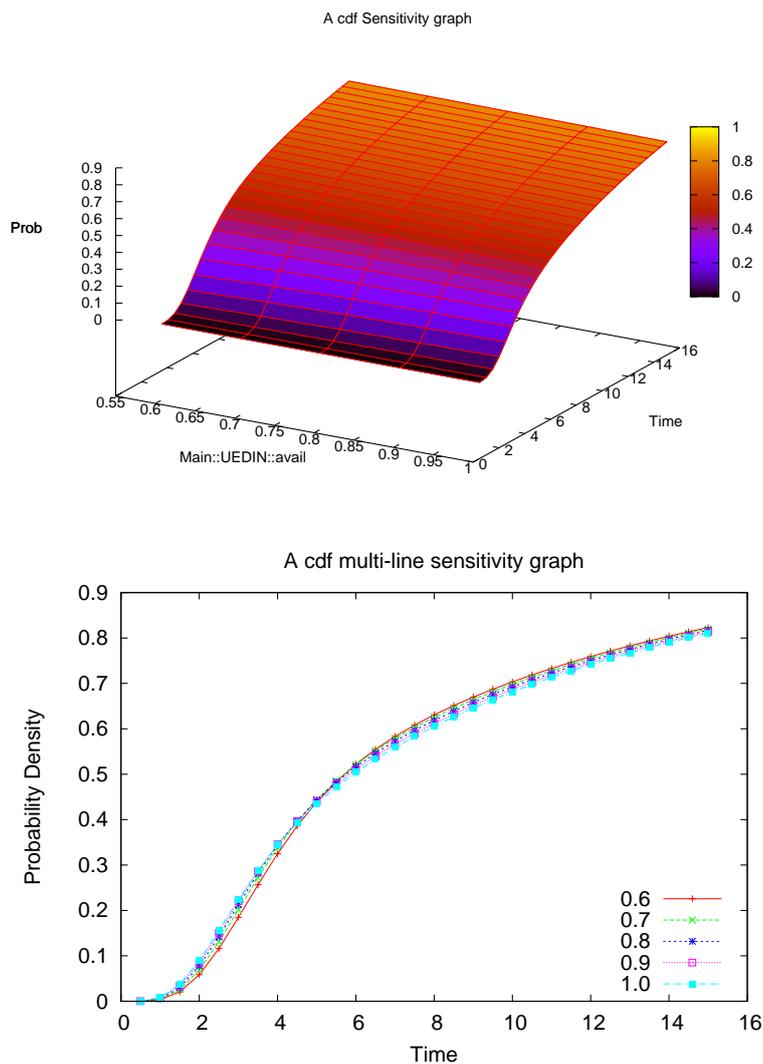


Figure 189: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-15-1-cdf.pdf and Main::UEDIN::avail-15-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

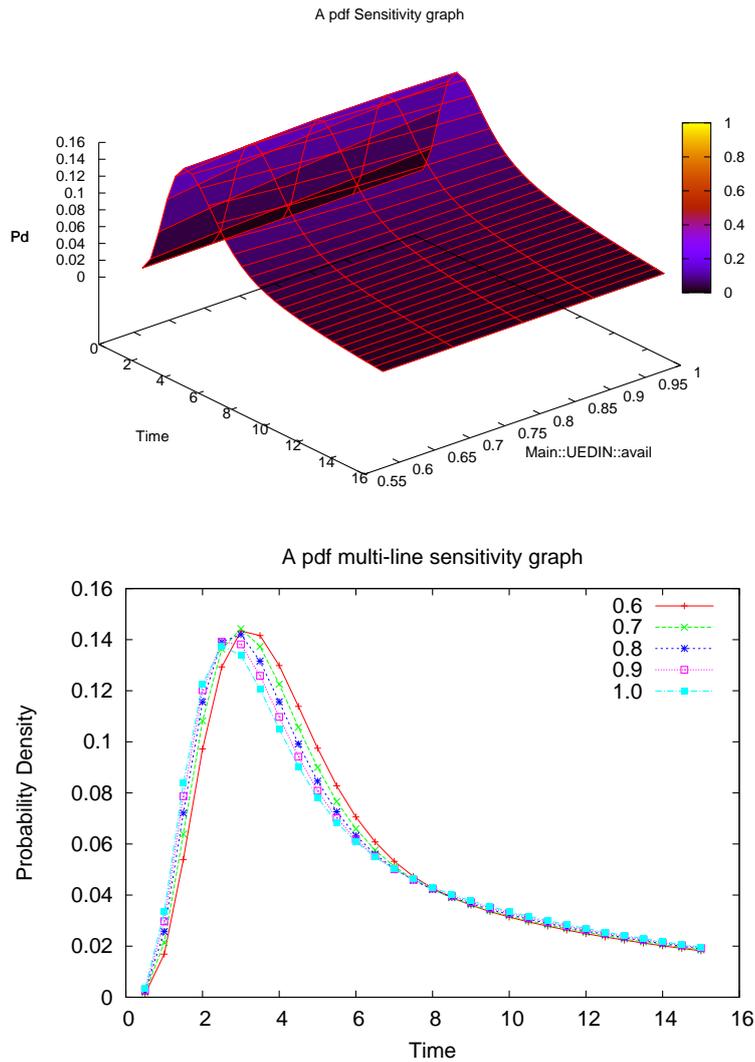


Figure 190: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-15-1-pdf.pdf and Main::UEDIN::avail-15-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

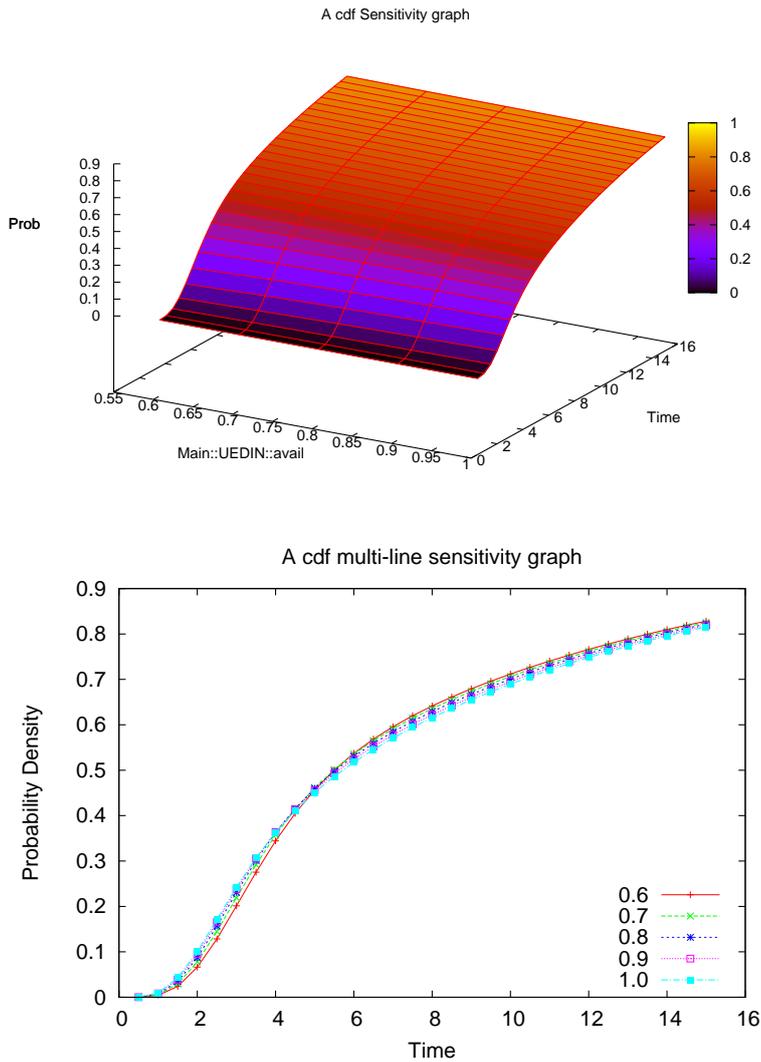


Figure 191: Sensitivity graphs of cdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-15-2-cdf.pdf and Main::UEDIN::avail-15-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UEDIN::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

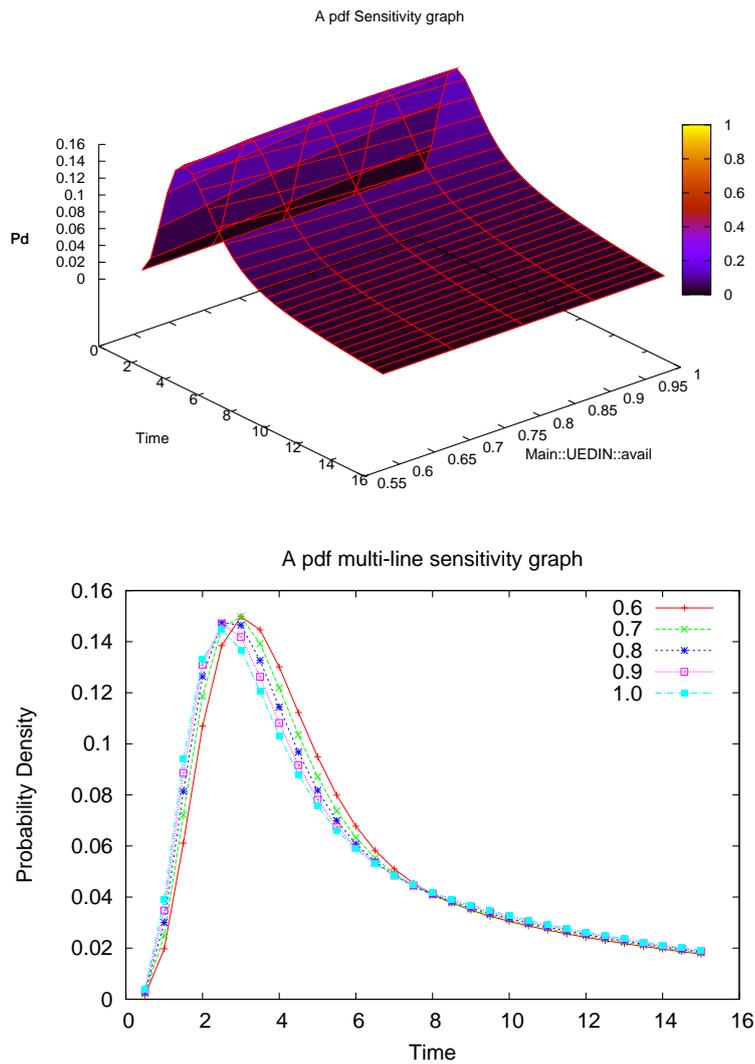


Figure 192: Sensitivity graphs of pdfs for the rate: Main::UEDIN::avail

The file names are: Main::UEDIN::avail-15-2-pdf.pdf and Main::UEDIN::avail-15-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

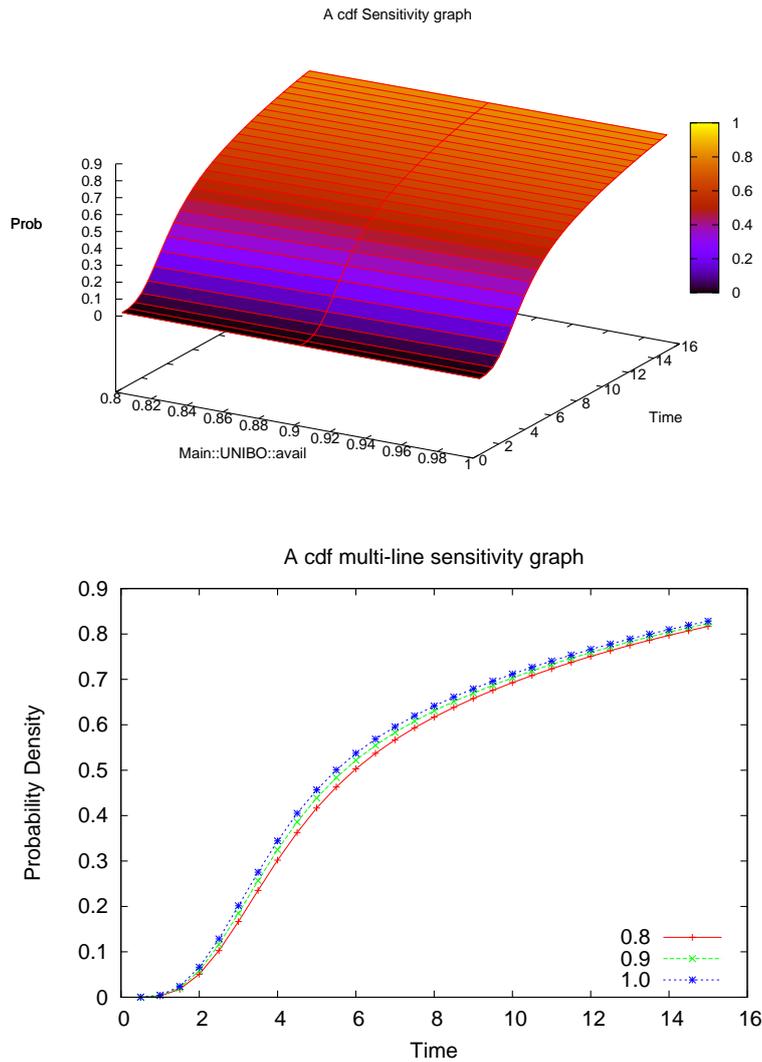


Figure 193: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-3-cdf.pdf and Main::UNIBO::avail-15-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.6

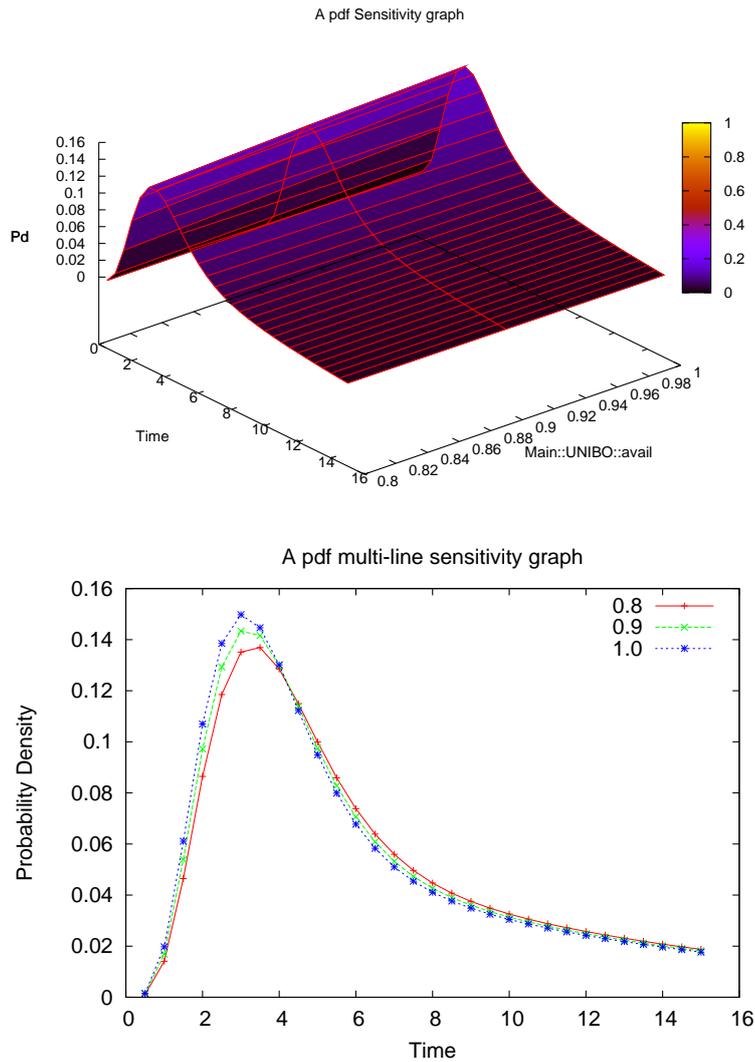


Figure 194: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-3-pdf.pdf and Main::UNIBO::avail-15-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

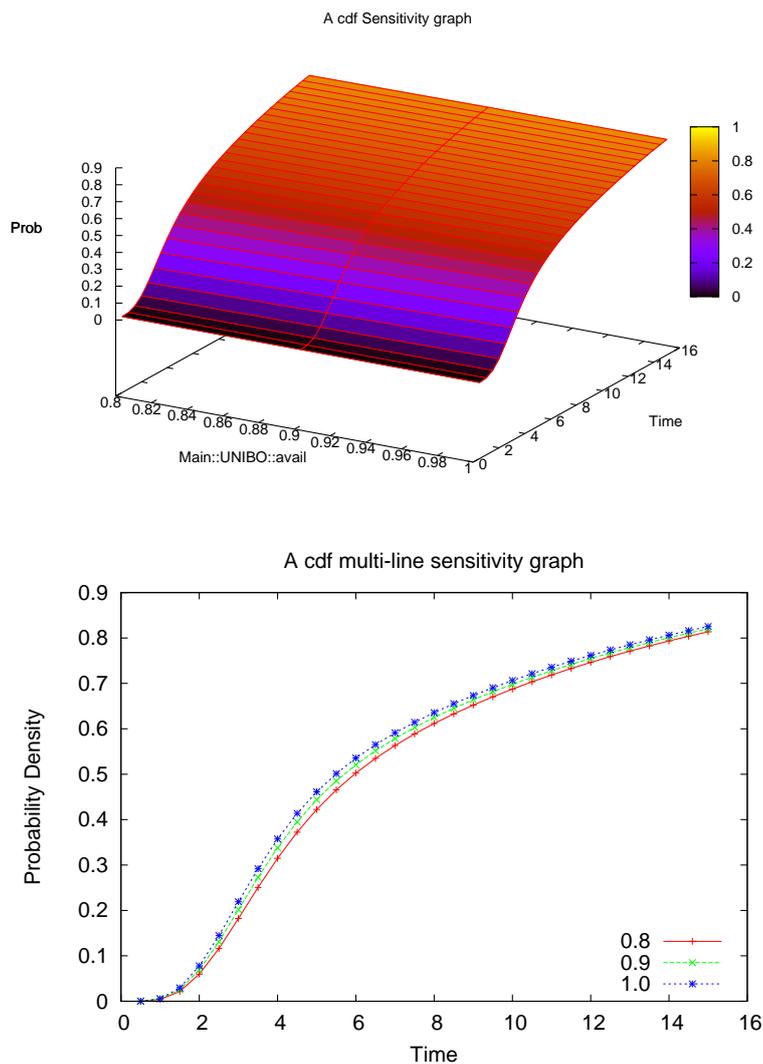


Figure 195: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-4-cdf.pdf and Main::UNIBO::avail-15-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.7

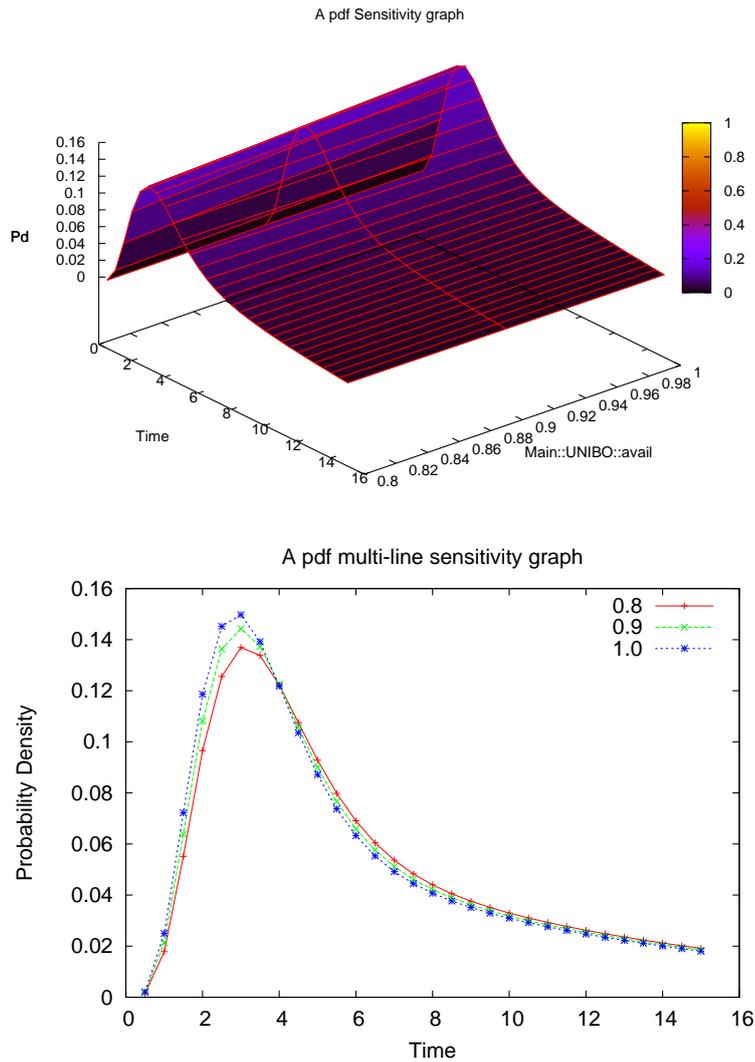


Figure 196: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-4-pdf.pdf and Main::UNIBO::avail-15-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

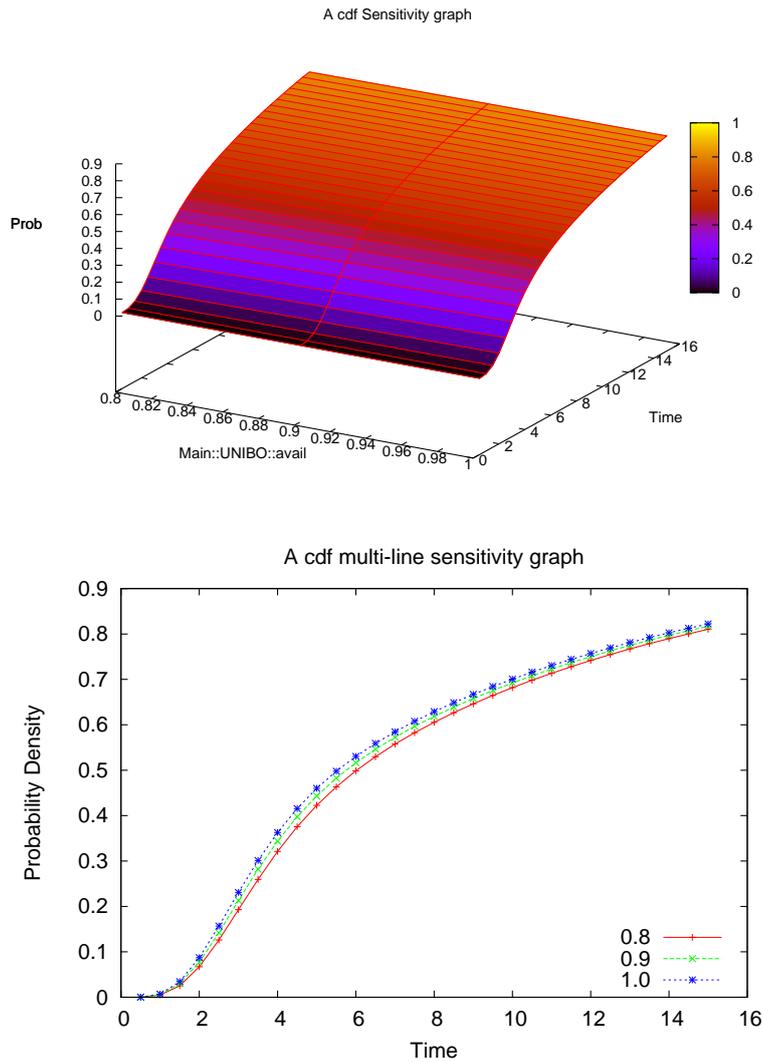


Figure 197: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-5-cdf.pdf and Main::UNIBO::avail-15-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.8

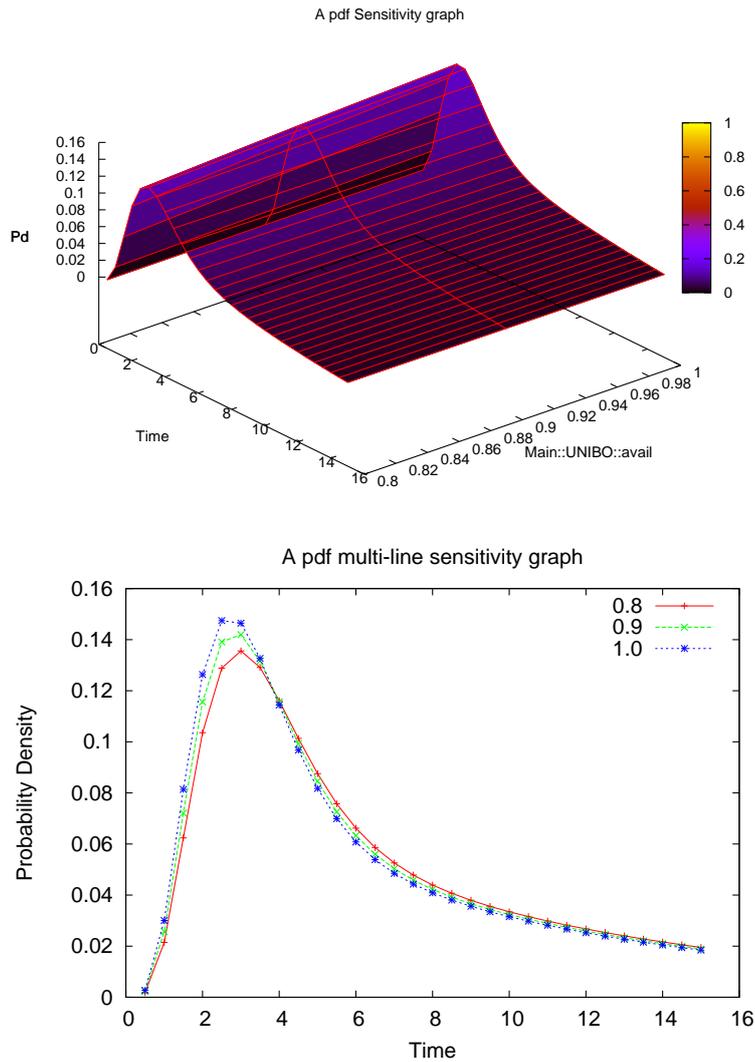


Figure 198: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-5-pdf.pdf and Main::UNIBO::avail-15-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

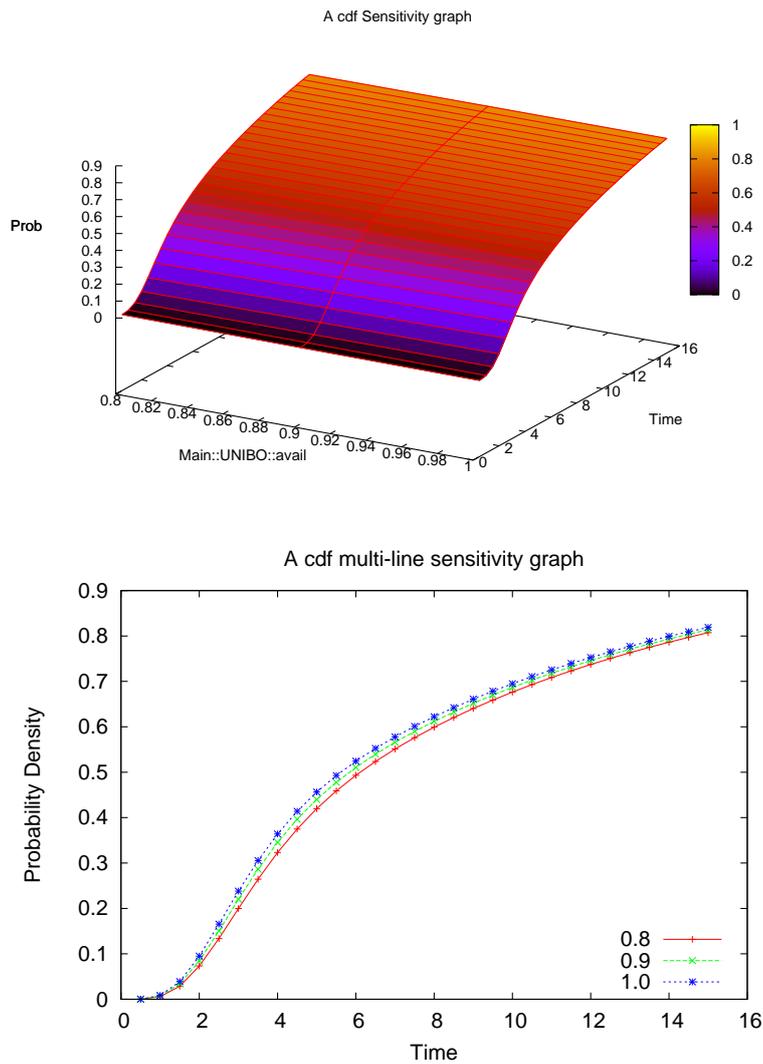


Figure 199: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-6-cdf.pdf and Main::UNIBO::avail-15-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 0.9

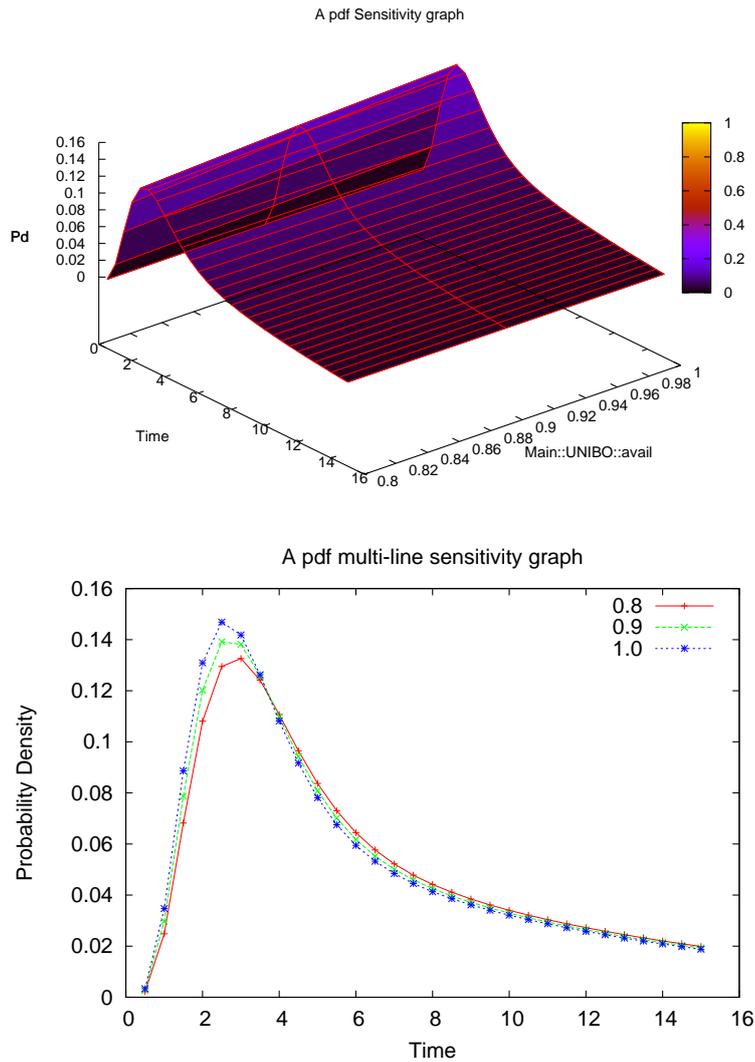


Figure 200: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-6-pdf.pdf and Main::UNIBO::avail-15-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

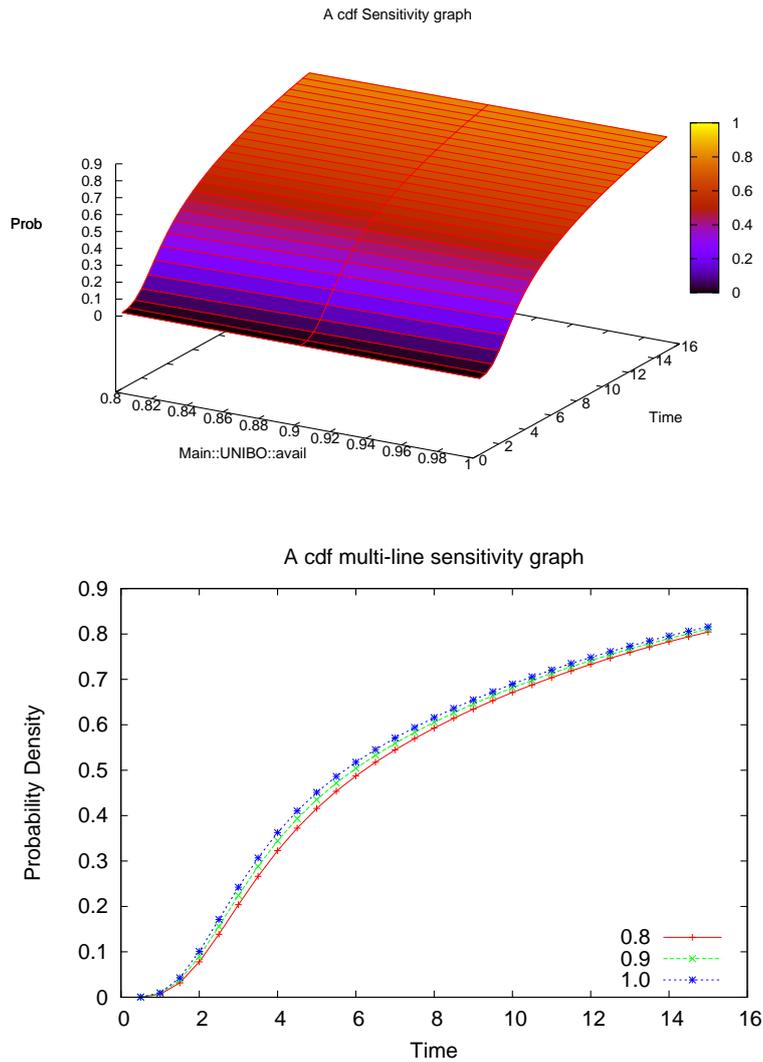


Figure 201: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-7-cdf.pdf and Main::UNIBO::avail-15-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UEDIN::avail = 1.0

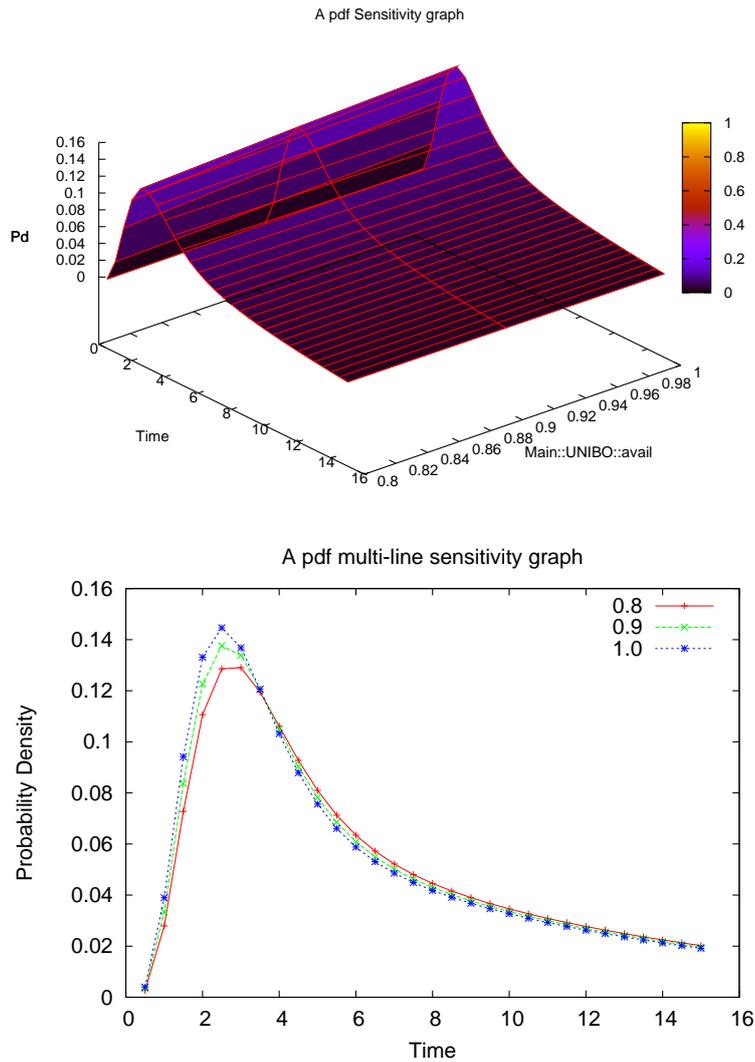


Figure 202: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-15-7-pdf.pdf and Main::UNIBO::avail-15-7-pdf-multi.pdf

## 2.17 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

```
Main__Client = Main__SALLY__Idle  
Main__Upload = Main__UNIBO__UPLOAD__Idle  
Main__Download = Main__LMU__DOWNLOAD__Idle
```

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

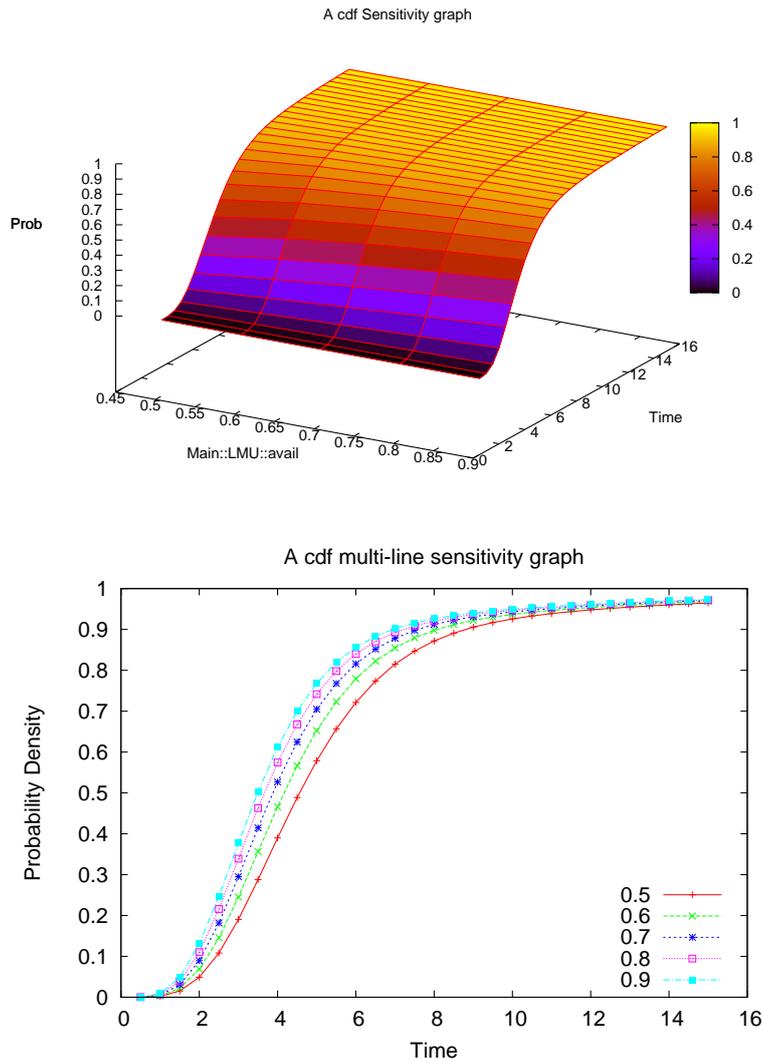


Figure 203: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-16-0-cdf.pdf and Main::LMU::avail-16-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.8

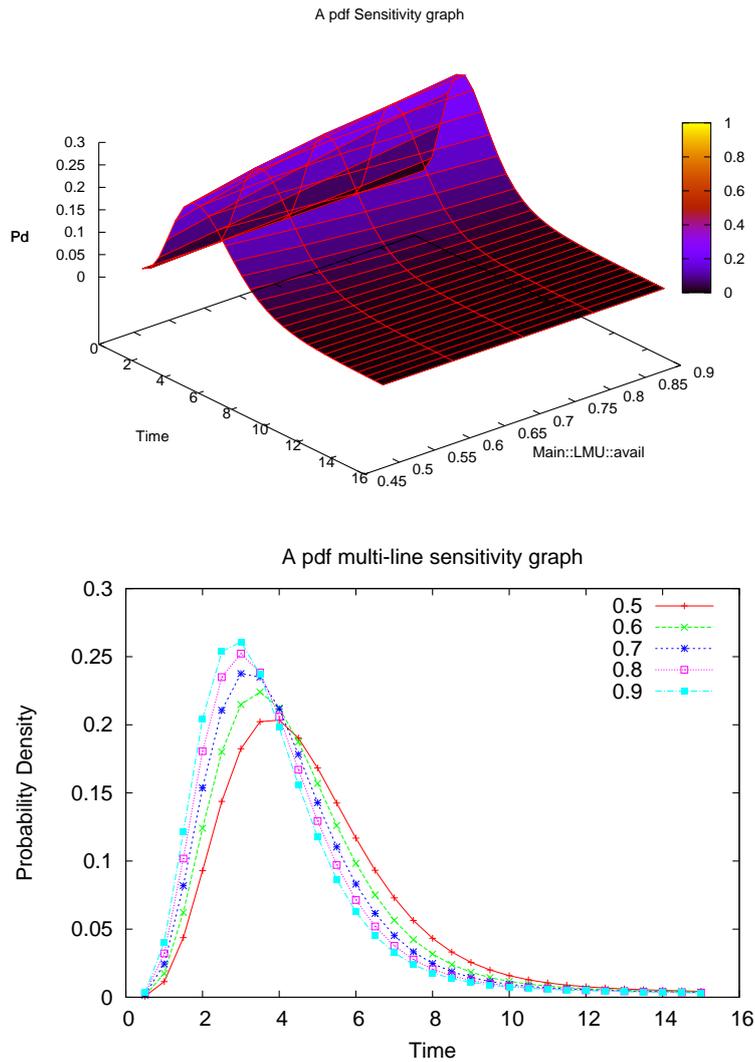


Figure 204: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-16-0-pdf.pdf and Main::LMU::avail-16-0-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

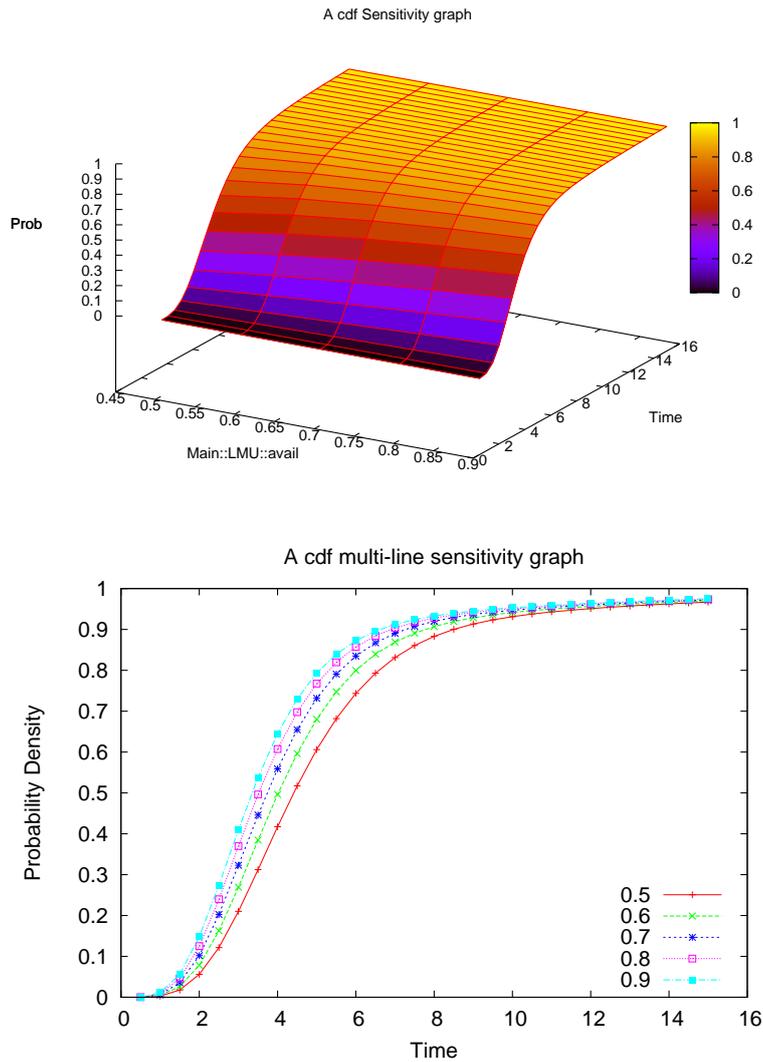


Figure 205: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-16-1-cdf.pdf and Main::LMU::avail-16-1-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 0.9

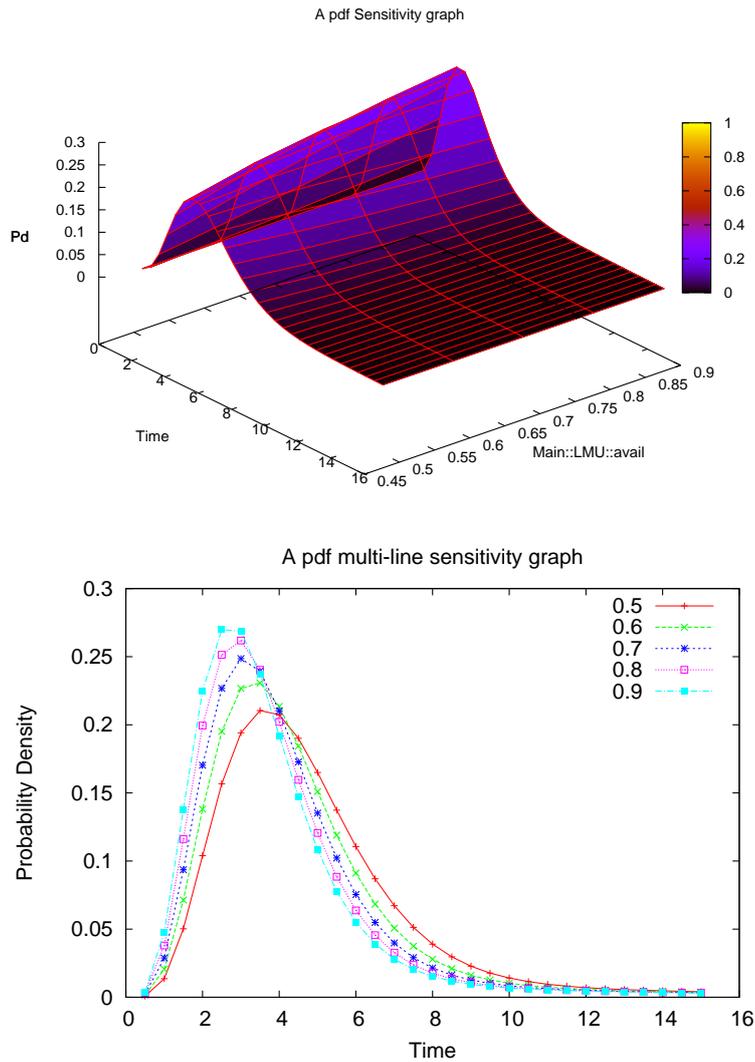


Figure 206: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-16-1-pdf.pdf and Main::LMU::avail-16-1-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

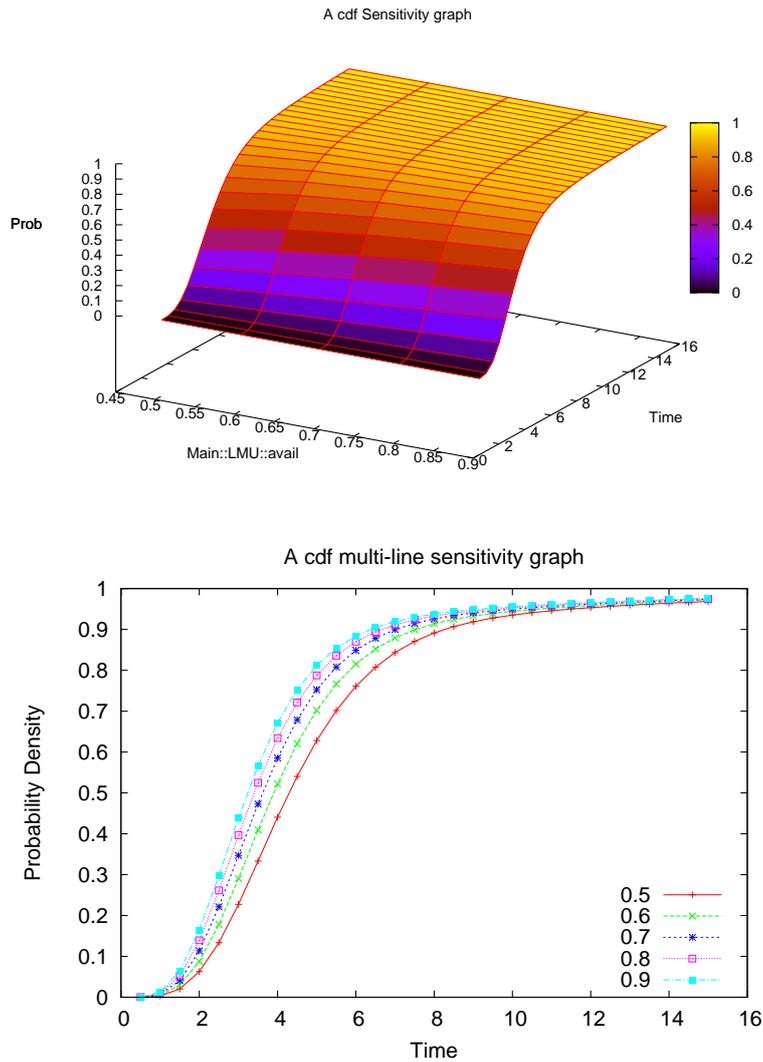


Figure 207: Sensitivity graphs of cdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-16-2-cdf.pdf and Main::LMU::avail-16-2-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::LMU::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::UNIBO::avail = 1.0

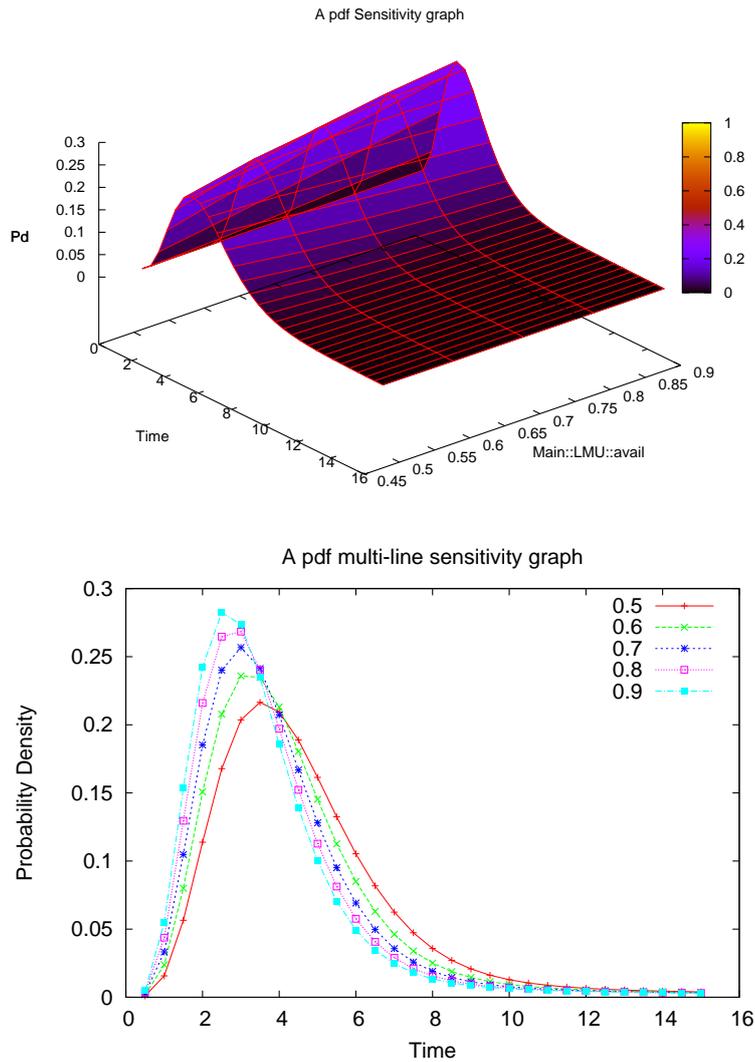


Figure 208: Sensitivity graphs of pdfs for the rate: Main::LMU::avail

The file names are: Main::LMU::avail-16-2-pdf.pdf and Main::LMU::avail-16-2-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

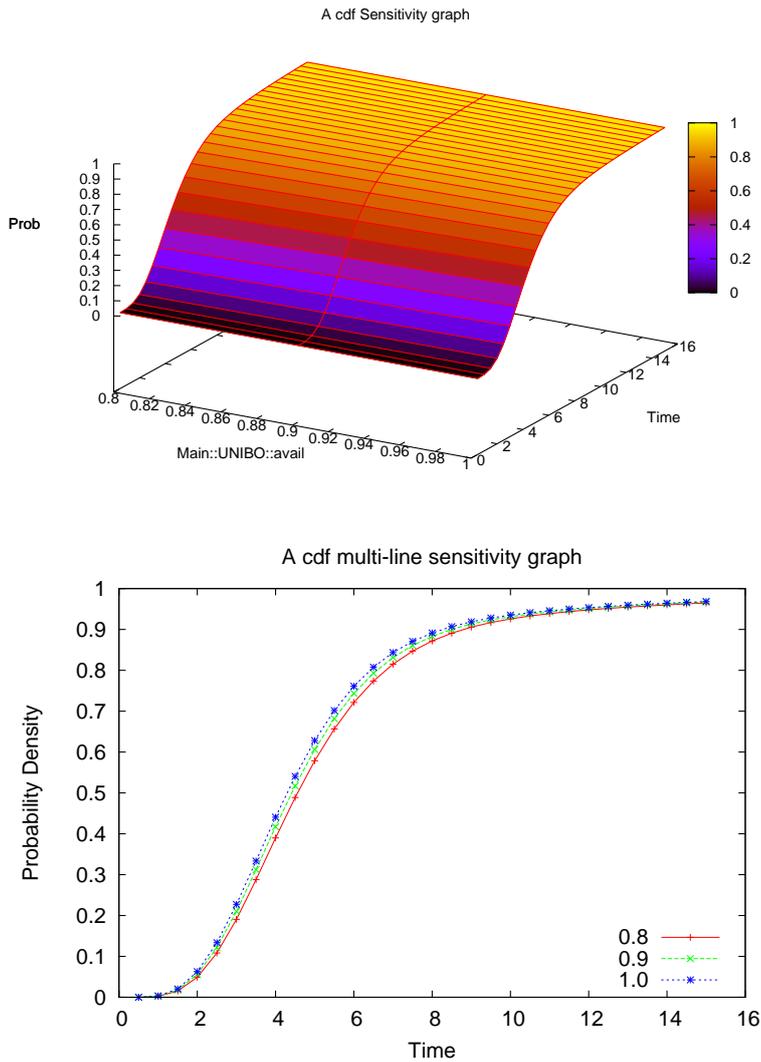


Figure 209: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-3-cdf.pdf and Main::UNIBO::avail-16-3-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.5

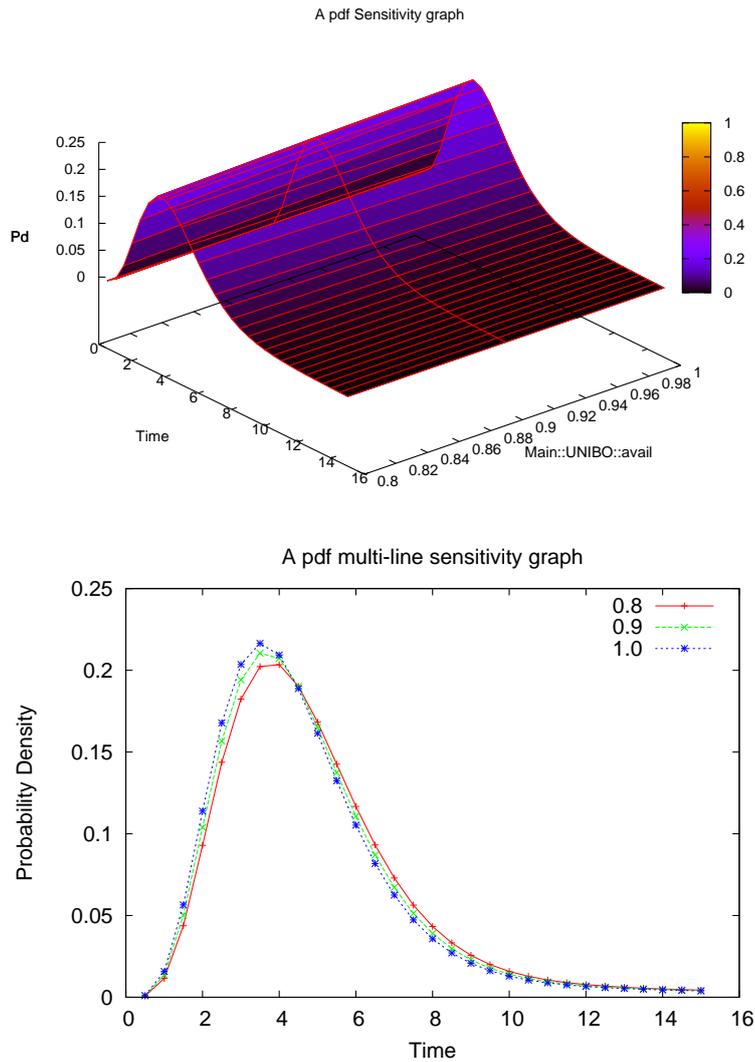


Figure 210: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-3-pdf.pdf and Main::UNIBO::avail-16-3-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

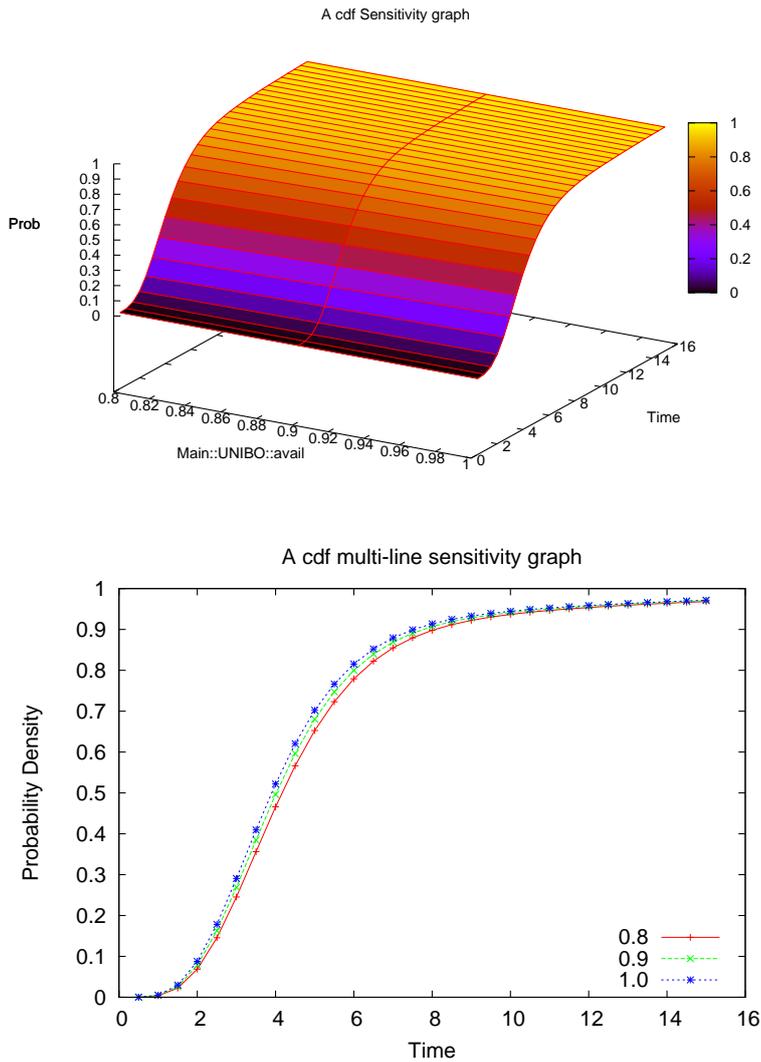


Figure 211: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-4-cdf.pdf and Main::UNIBO::avail-16-4-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.6

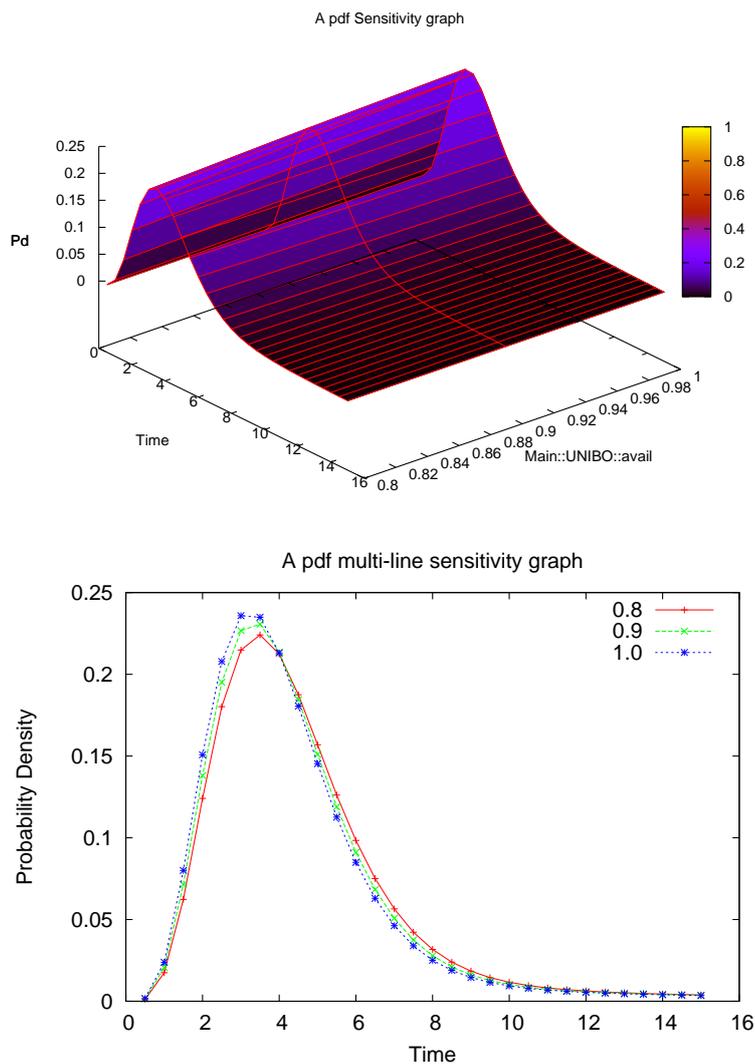


Figure 212: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-4-pdf.pdf and Main::UNIBO::avail-16-4-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

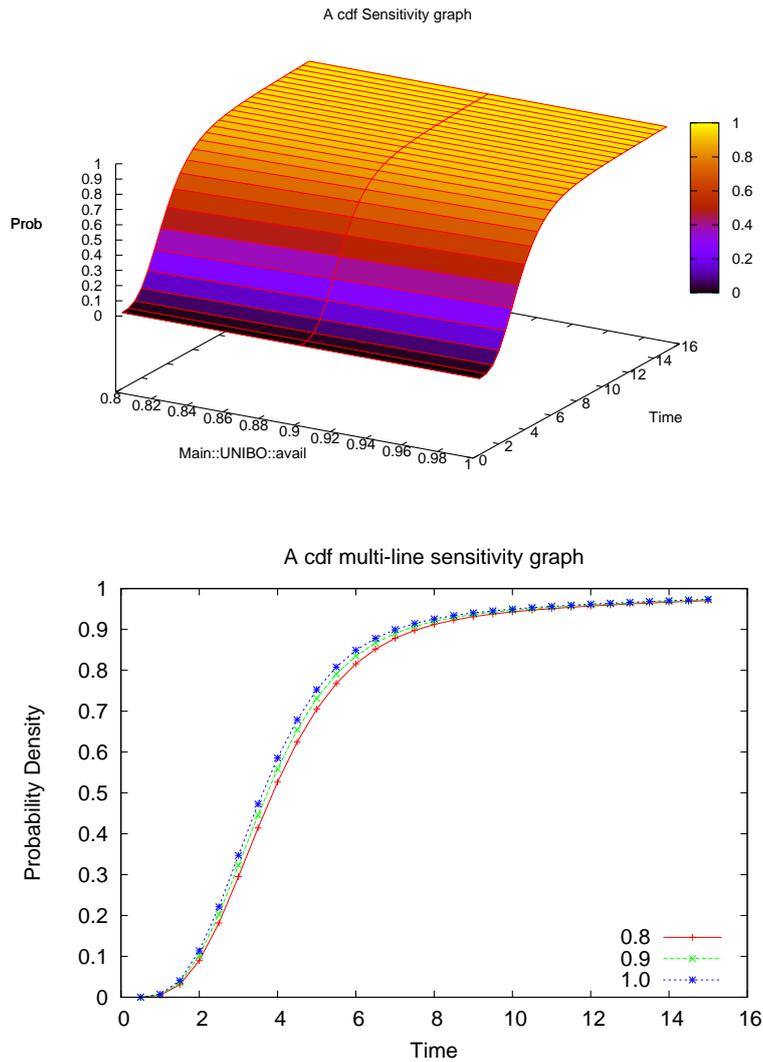


Figure 213: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-5-cdf.pdf and Main::UNIBO::avail-16-5-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.7

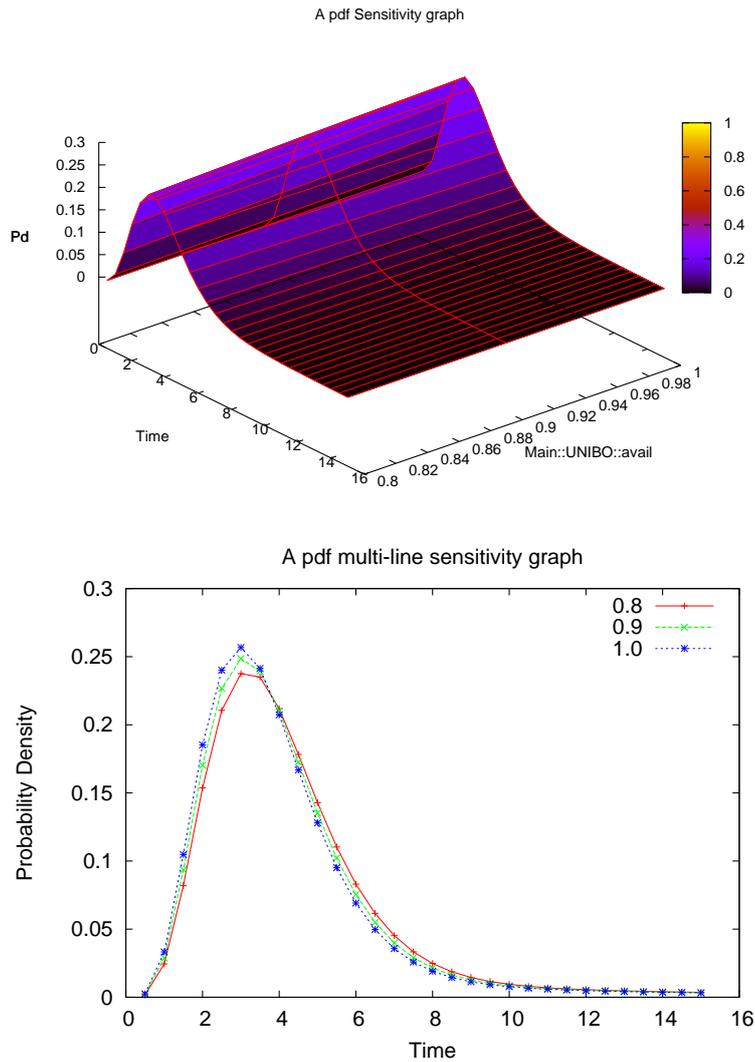


Figure 214: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-5-pdf.pdf and Main::UNIBO::avail-16-5-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

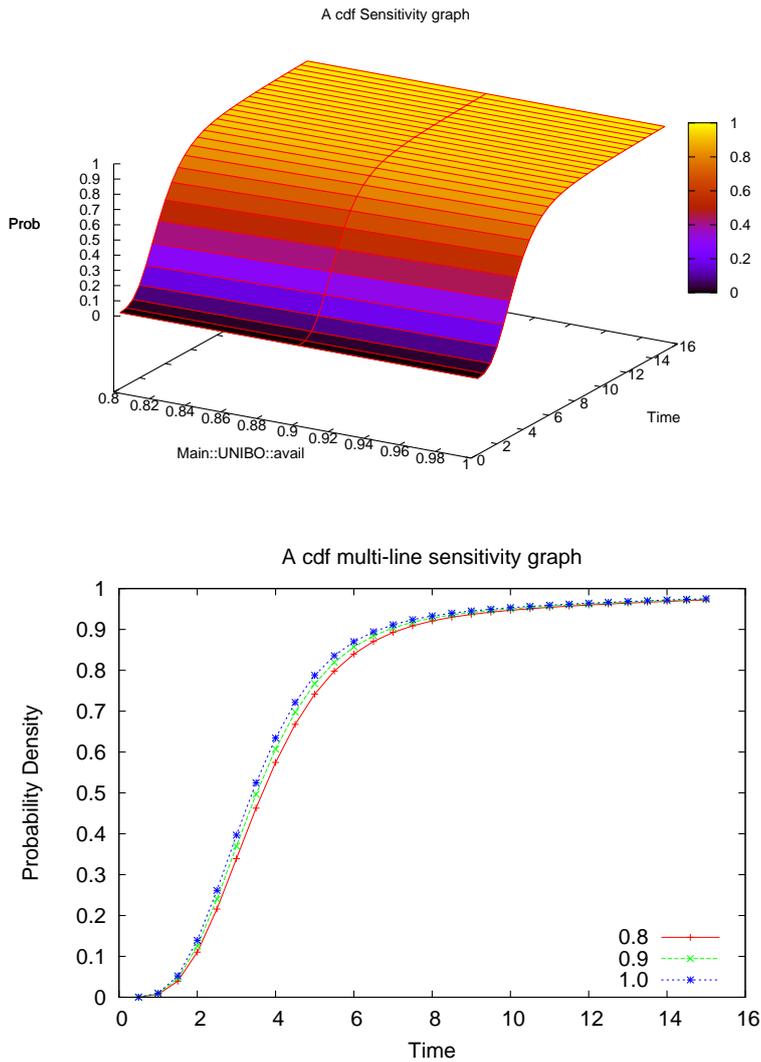


Figure 215: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-6-cdf.pdf and Main::UNIBO::avail-16-6-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.8

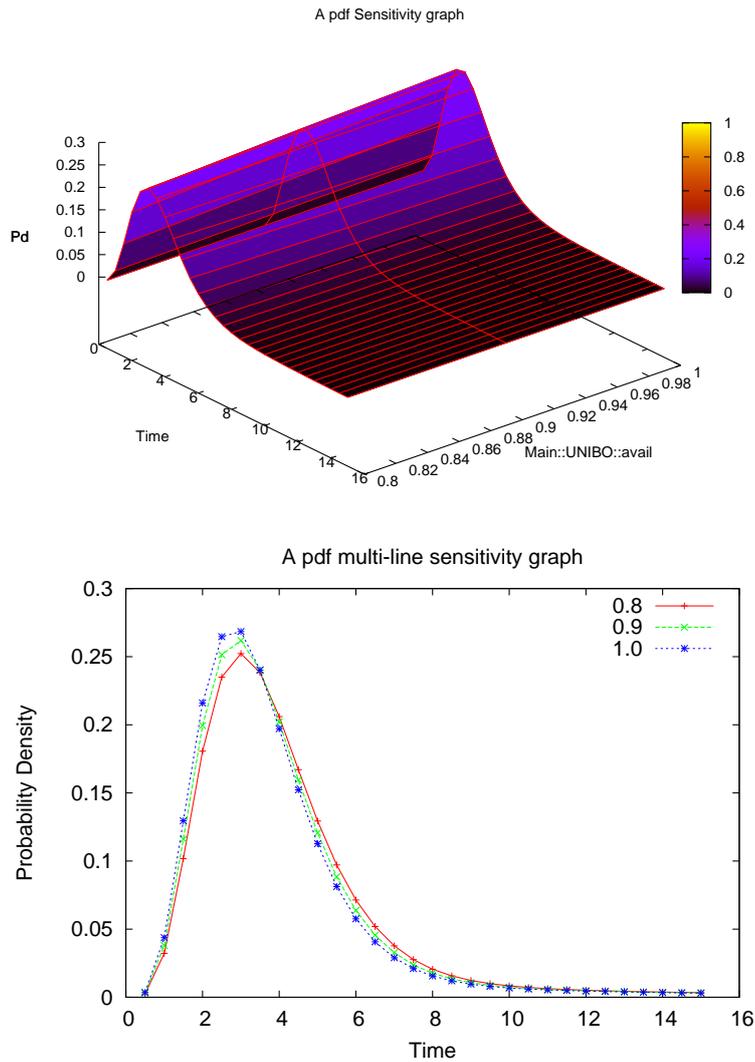


Figure 216: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-6-pdf.pdf and Main::UNIBO::avail-16-6-pdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

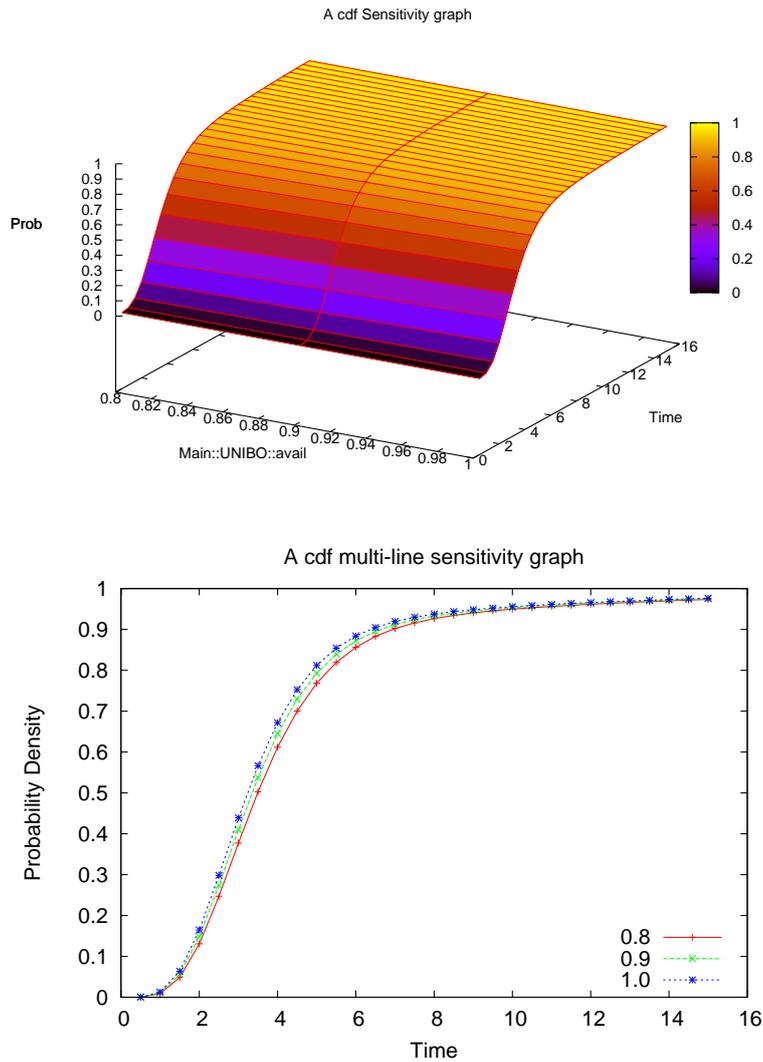


Figure 217: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-7-cdf.pdf and Main::UNIBO::avail-16-7-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail. The other rates which are used in this model (and are defined by a rate array in the main srnc model) are as follows:

Main::LMU::avail = 0.9

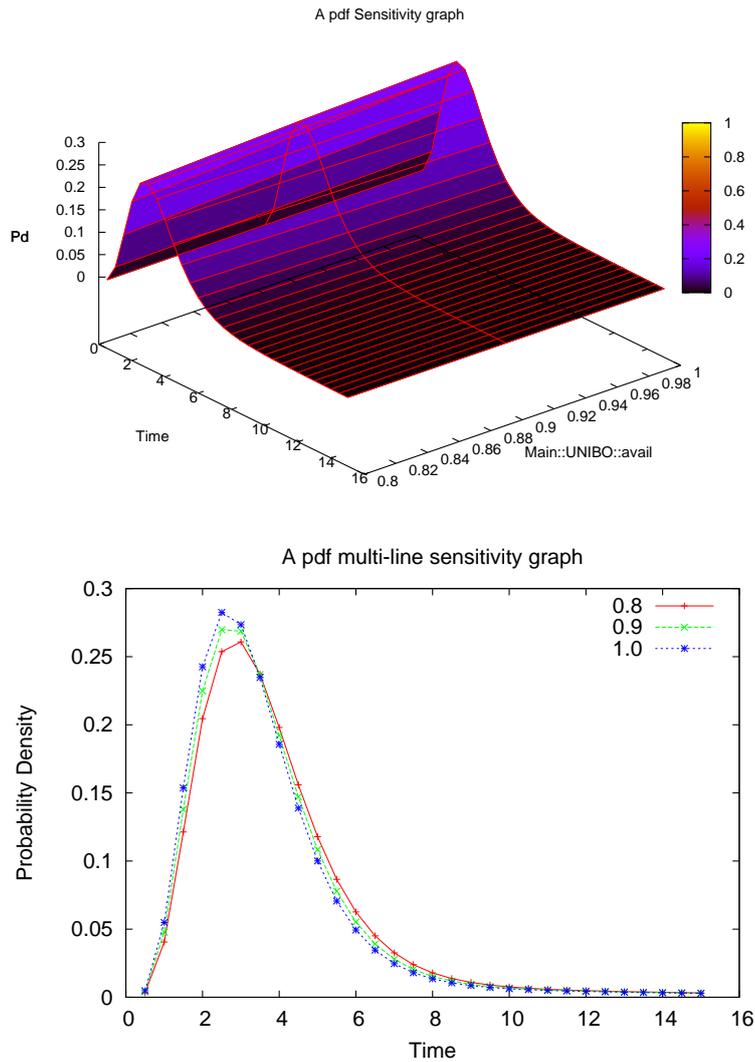


Figure 218: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-16-7-pdf.pdf and Main::UNIBO::avail-16-7-pdf-multi.pdf

## 2.18 Sensitivity Graph Group

All the sensitivity graphs in this sub-section Relate to the following choices of process instantiations:

`Main__Client = Main__SALLY__Idle`

`Main__Upload = Main__UNIBO__UPLOAD__Idle`

`Main__Download = Main__UNIBO__DOWNLOAD__Idle`

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail.

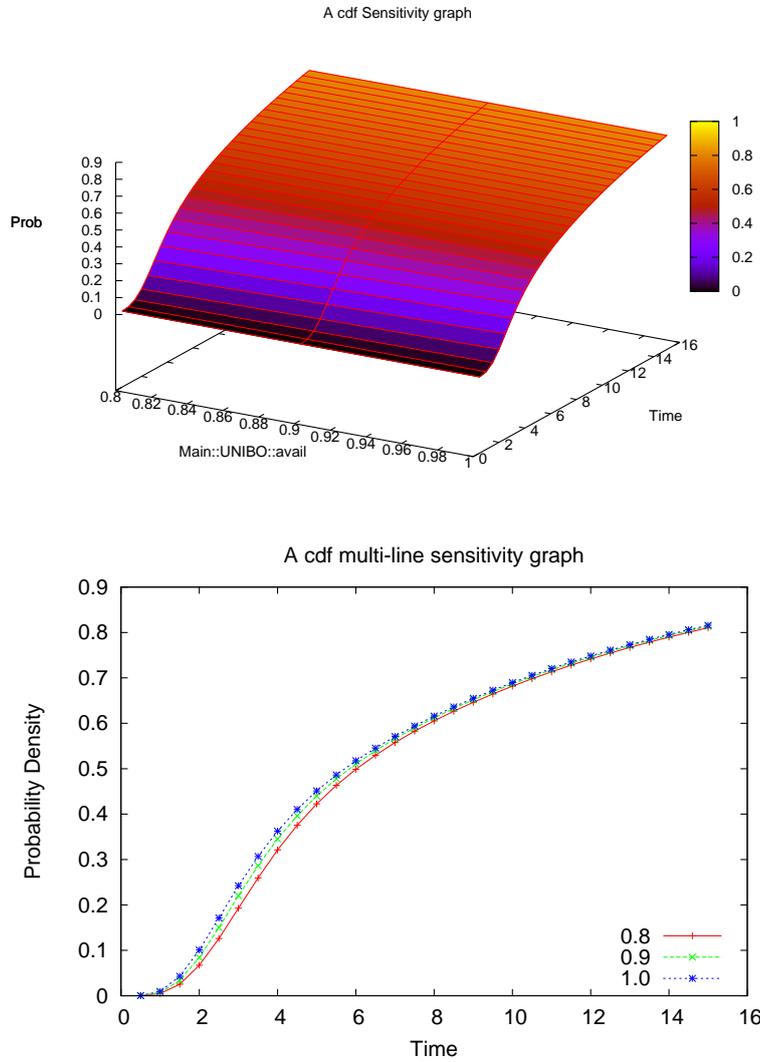


Figure 219: Sensitivity graphs of cdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-17-0-cdf.pdf and Main::UNIBO::avail-17-0-cdf-multi.pdf

The graphs in figure ?? show the effect of the rate Main::UNIBO::avail.

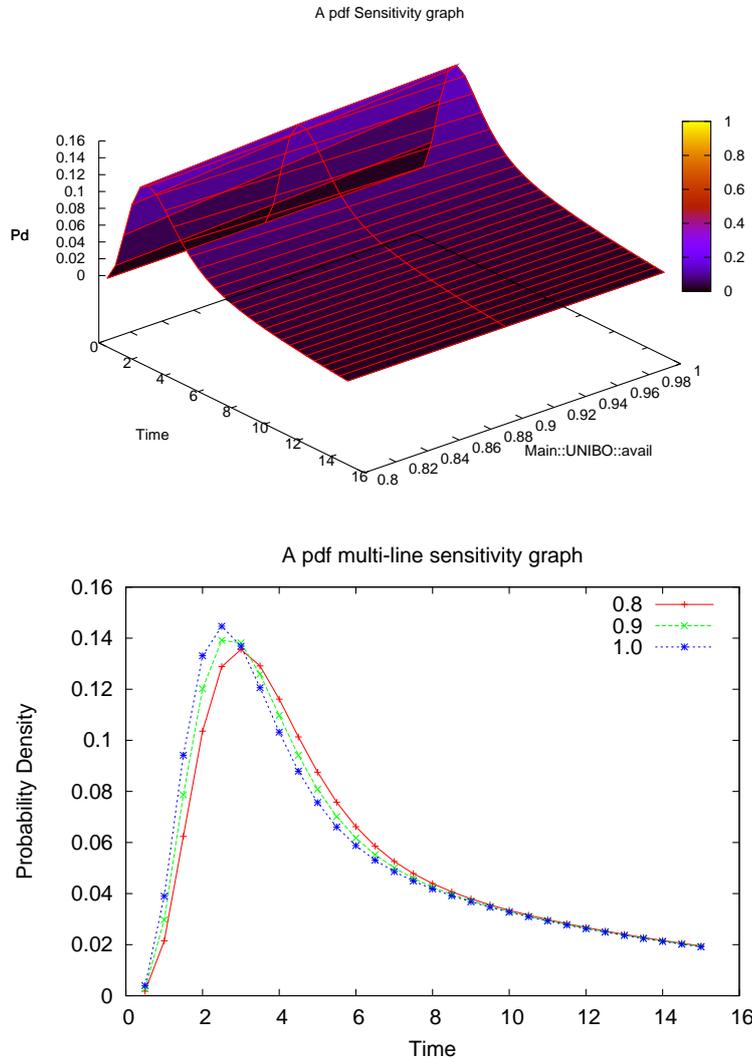


Figure 220: Sensitivity graphs of pdfs for the rate: Main::UNIBO::avail

The file names are: Main::UNIBO::avail-17-0-pdf.pdf and Main::UNIBO::avail-17-0-pdf-multi.pdf

### 3 Candle Stick Graphs

A candle stick graph is ...

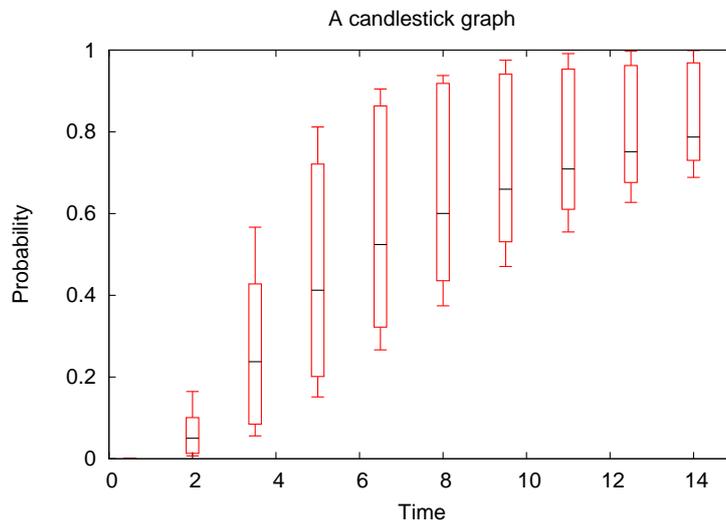


Figure 221: The candle stick graph where the boxes represent a high of 90 and a low of 10

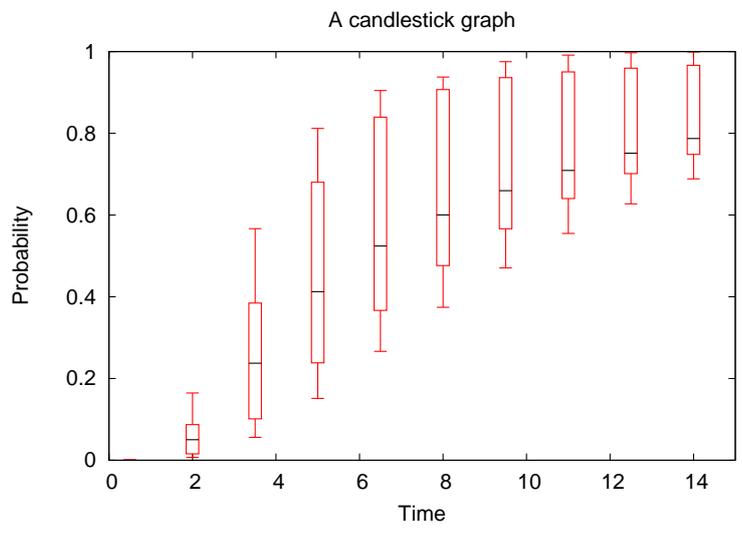


Figure 222: The candle stick graph where the boxes represent a high of 85 and a low of 15

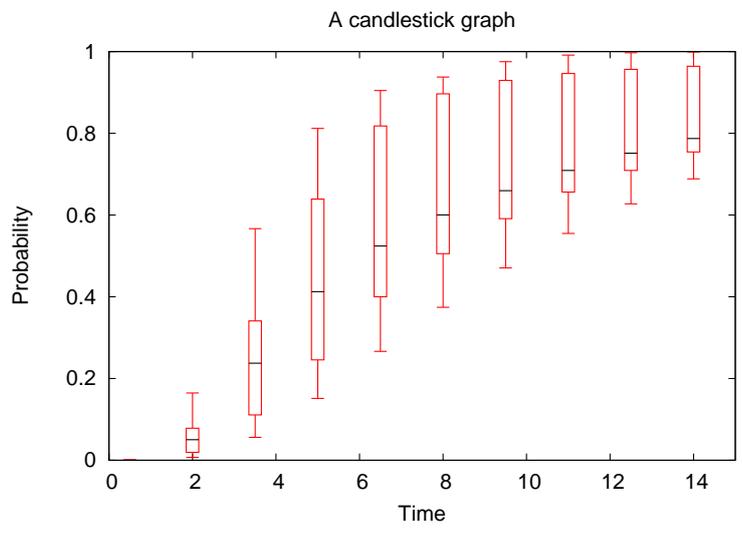


Figure 223: The candle stick graph where the boxes represent a high of 80 and a low of 20

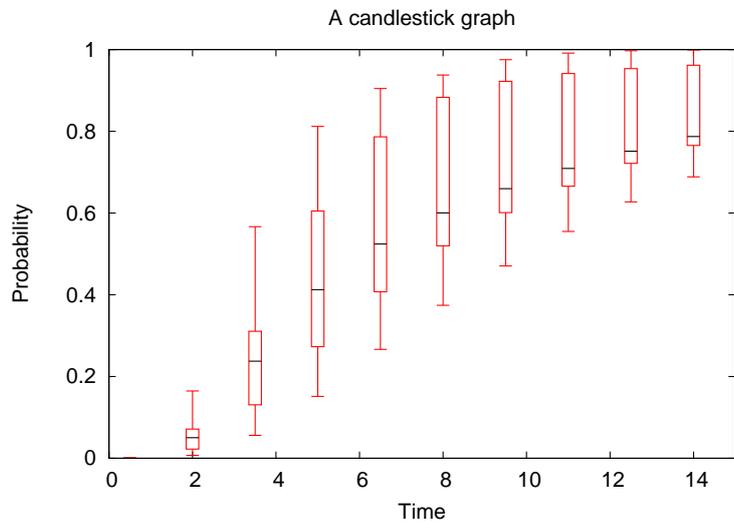


Figure 224: The candle stick graph where the boxes represent a high of 75 and a low of 25

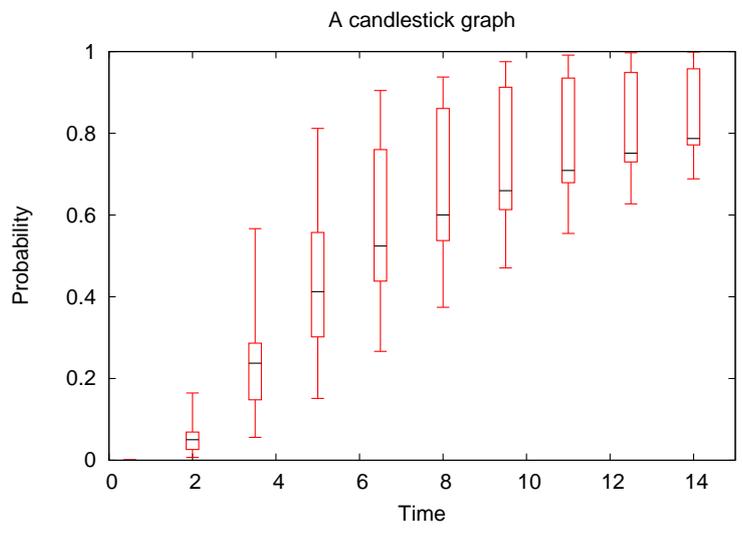


Figure 225: The candle stick graph where the boxes represent a high of 70 and a low of 30

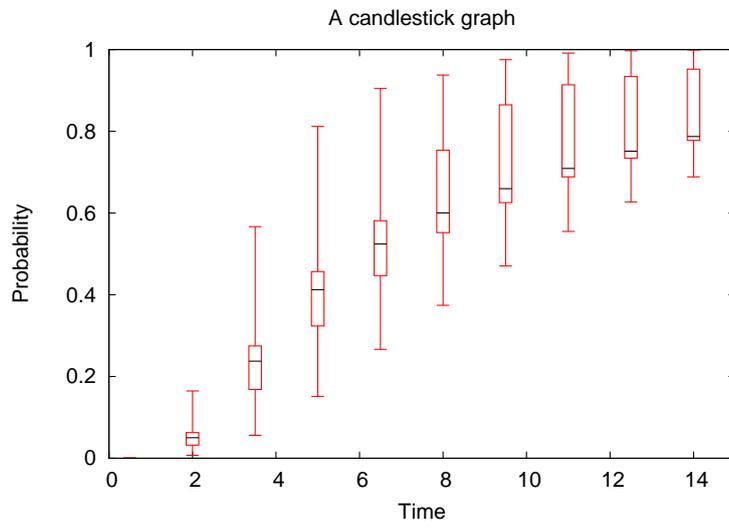


Figure 226: The candle stick graph where the boxes represent a high of 65 and a low of 35

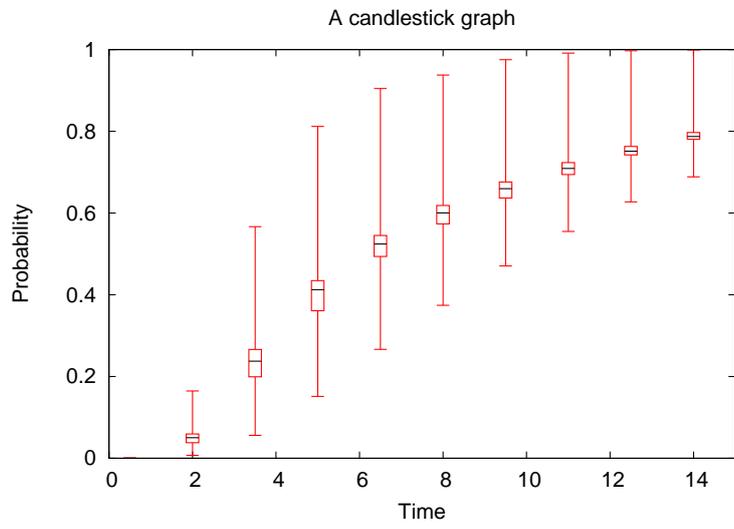


Figure 227: The candle stick graph where the boxes represent a high of 60 and a low of 40

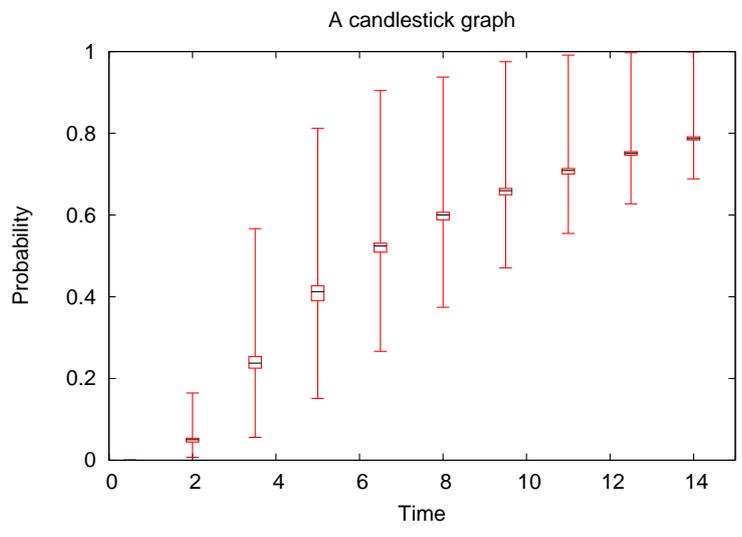


Figure 228: The candle stick graph where the boxes represent a high of 55 and a low of 45

## 4 Time-at Graphs

A time-at graph is ...

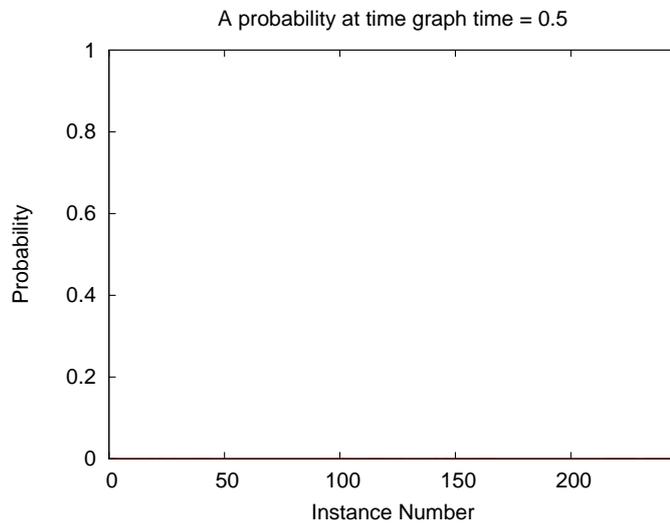


Figure 229: A time-at graph showing probability vs instance of model number at time: 0.5

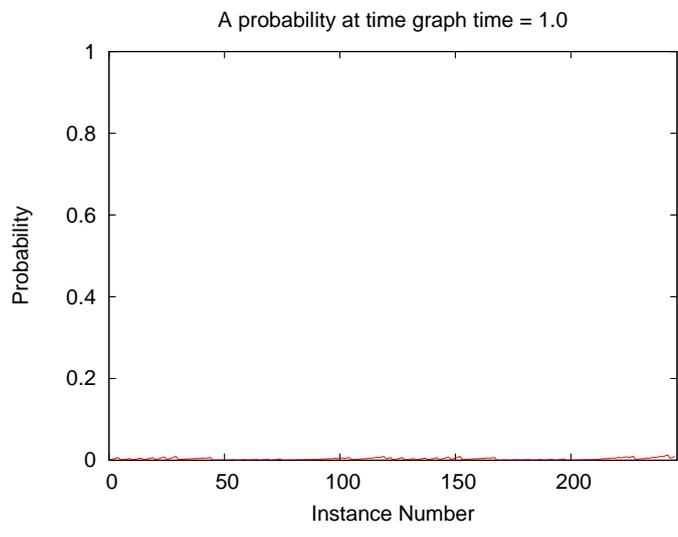


Figure 230: A time-at graph showing probability vs instance of model number at time: 1.0

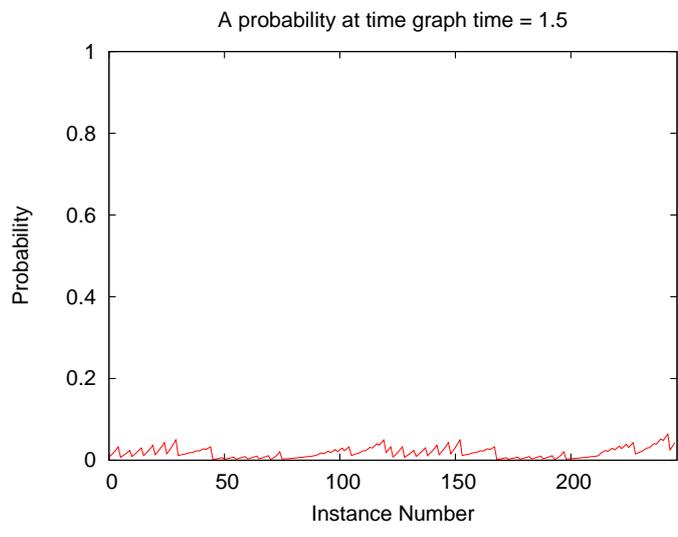


Figure 231: A time-at graph showing probability vs instance of model number at time: 1.5

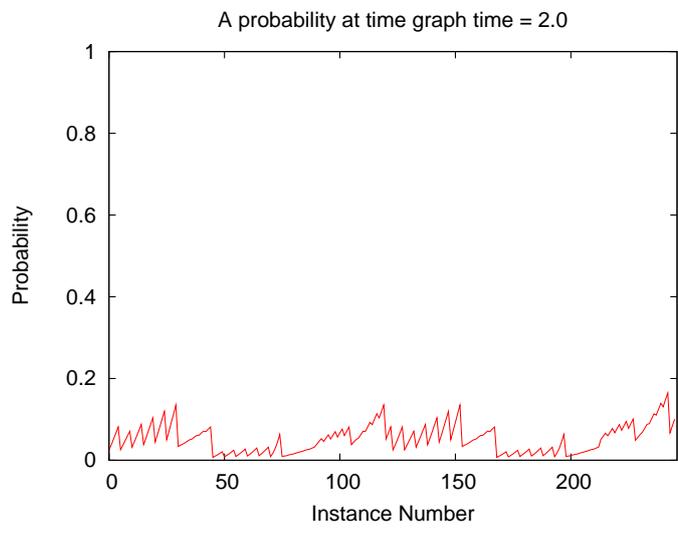


Figure 232: A time-at graph showing probability vs instance of model number at time: 2.0

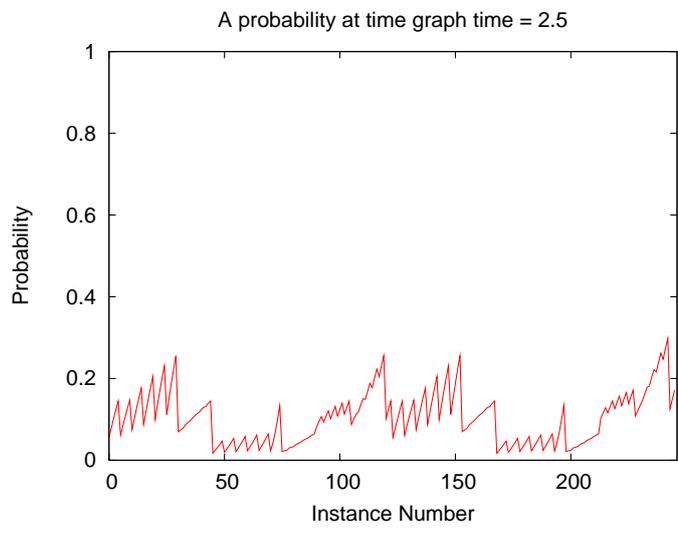


Figure 233: A time-at graph showing probability vs instance of model number at time: 2.5

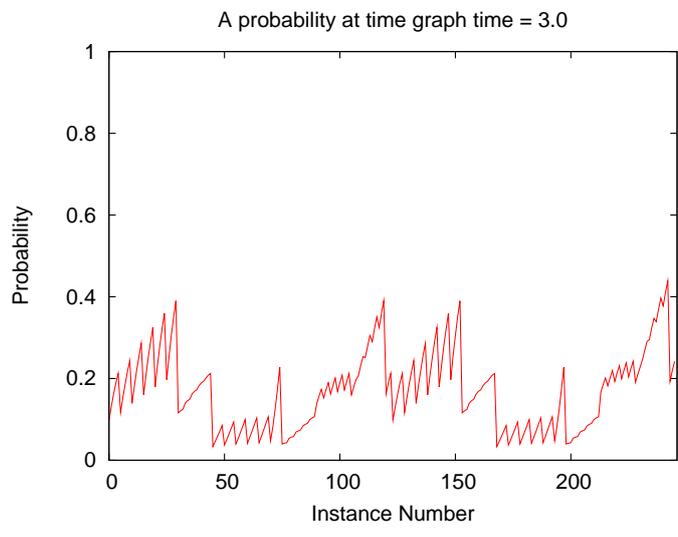


Figure 234: A time-at graph showing probability vs instance of model number at time: 3.0

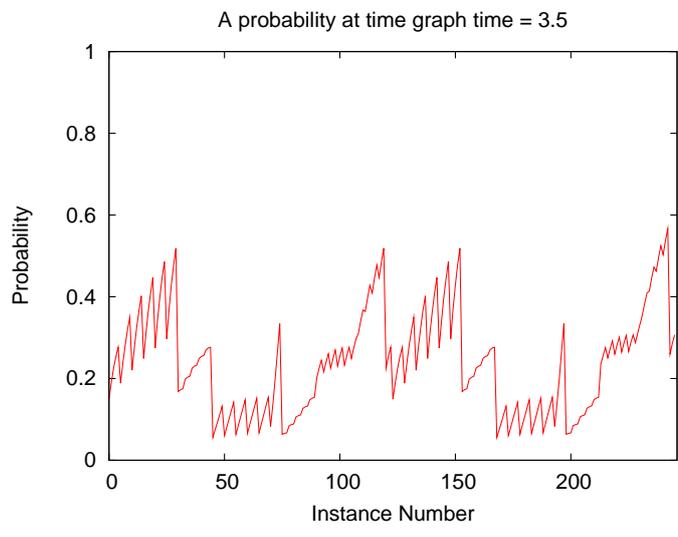


Figure 235: A time-at graph showing probability vs instance of model number at time: 3.5

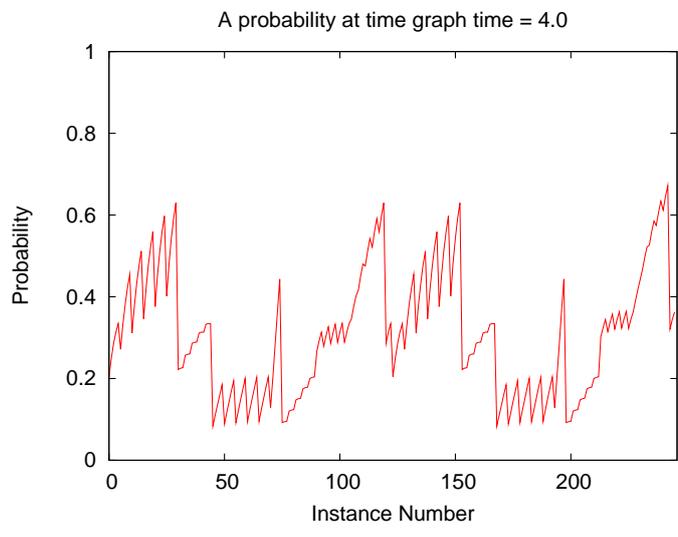


Figure 236: A time-at graph showing probability vs instance of model number at time: 4.0

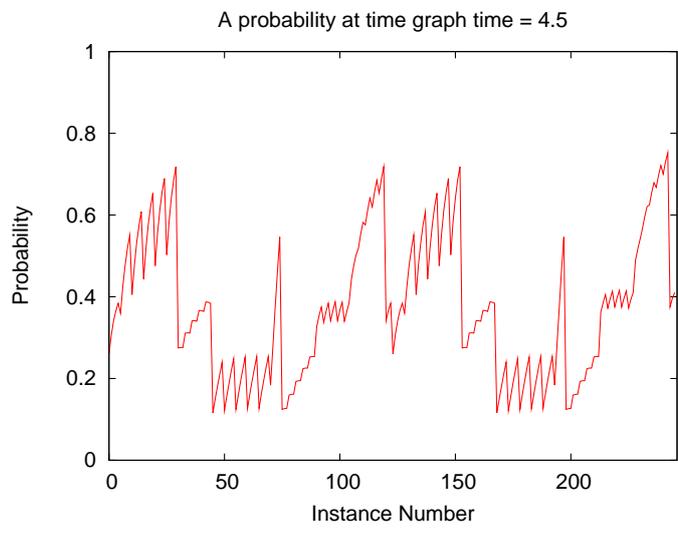


Figure 237: A time-at graph showing probability vs instance of model number at time: 4.5

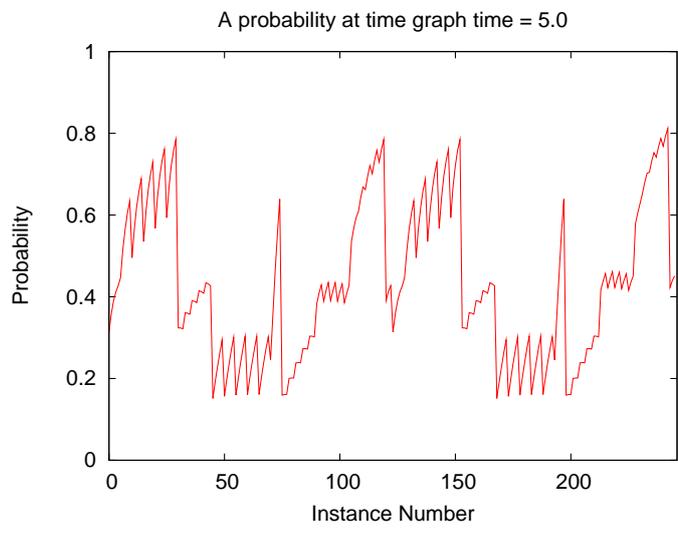


Figure 238: A time-at graph showing probability vs instance of model number at time: 5.0

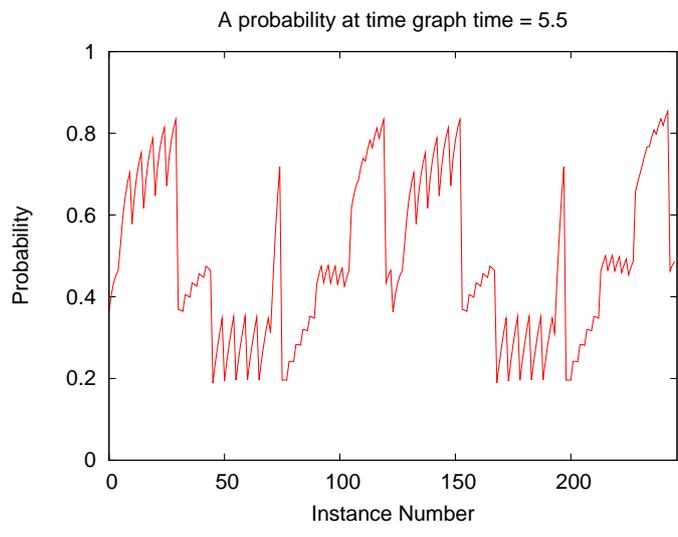


Figure 239: A time-at graph showing probability vs instance of model number at time: 5.5

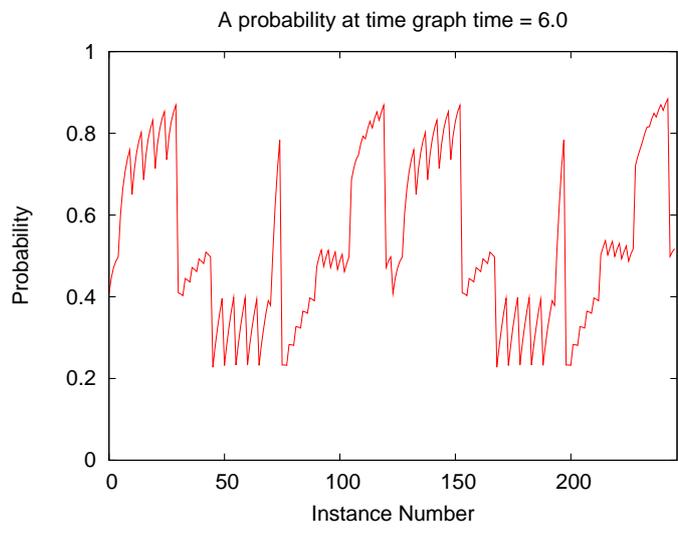


Figure 240: A time-at graph showing probability vs instance of model number at time: 6.0

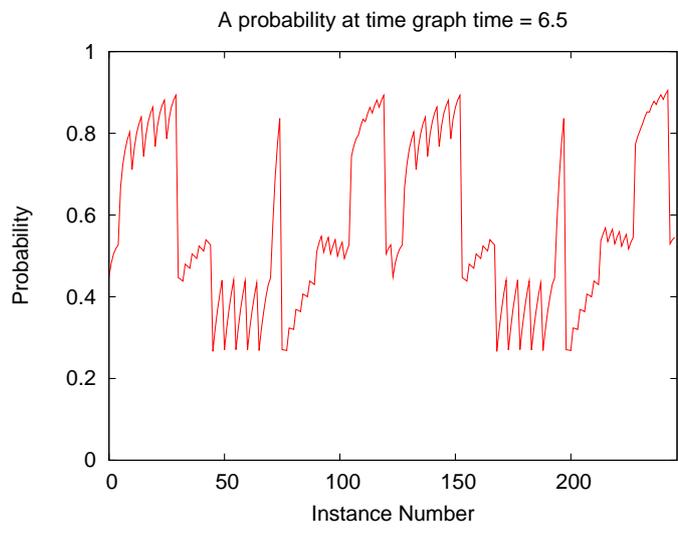


Figure 241: A time-at graph showing probability vs instance of model number at time: 6.5

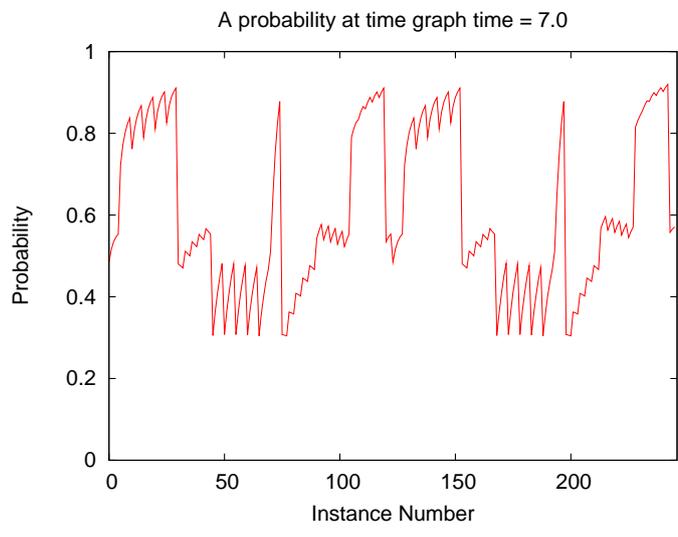


Figure 242: A time-at graph showing probability vs instance of model number at time: 7.0

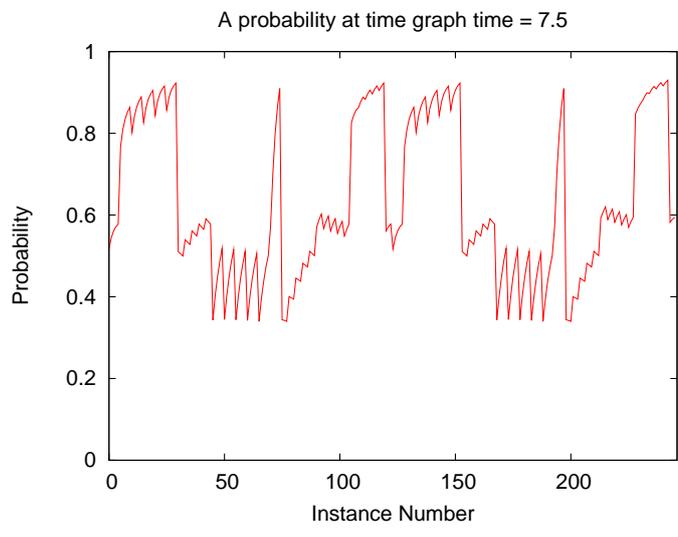


Figure 243: A time-at graph showing probability vs instance of model number at time: 7.5

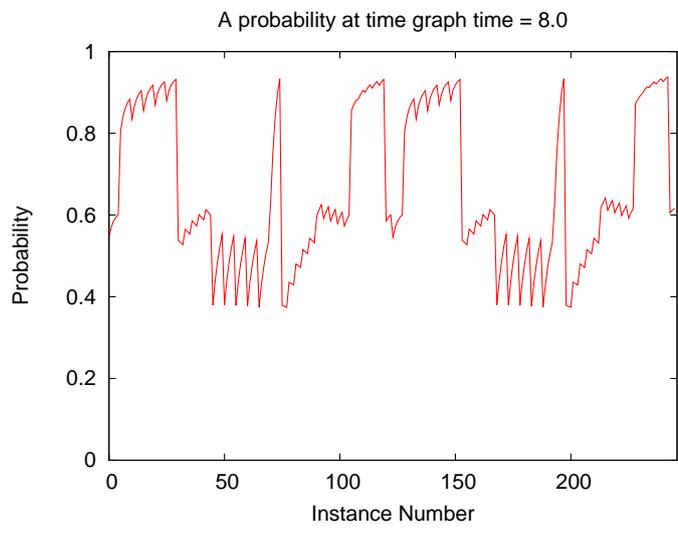


Figure 244: A time-at graph showing probability vs instance of model number at time: 8.0

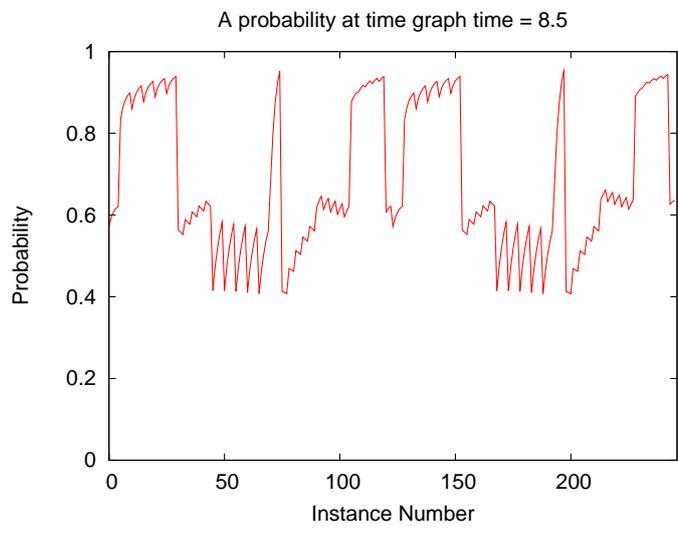


Figure 245: A time-at graph showing probability vs instance of model number at time: 8.5

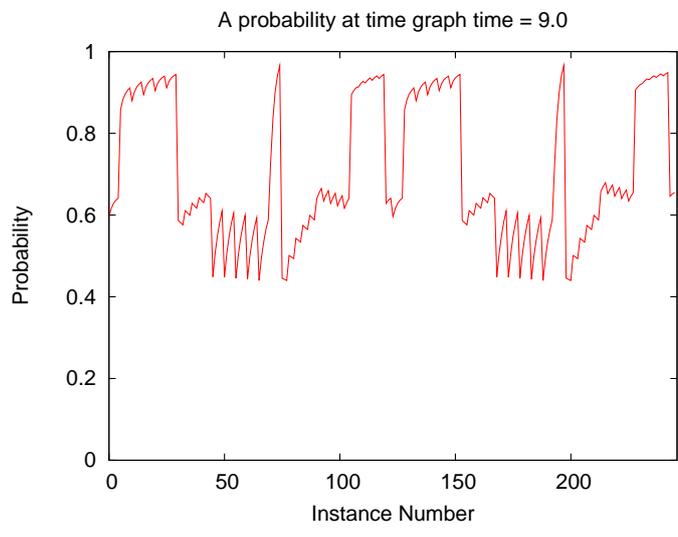


Figure 246: A time-at graph showing probability vs instance of model number at time: 9.0

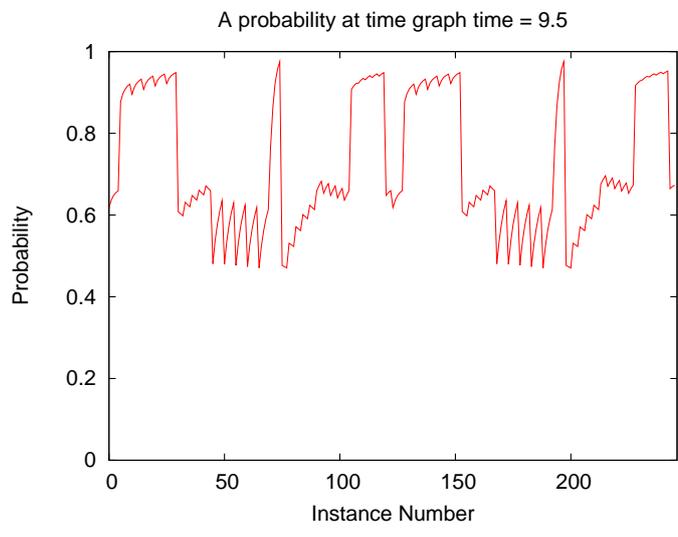


Figure 247: A time-at graph showing probability vs instance of model number at time: 9.5

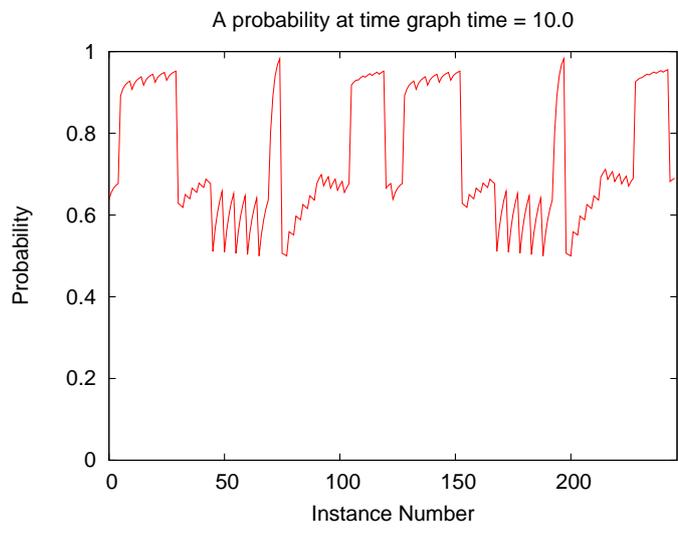


Figure 248: A time-at graph showing probability vs instance of model number at time: 10.0

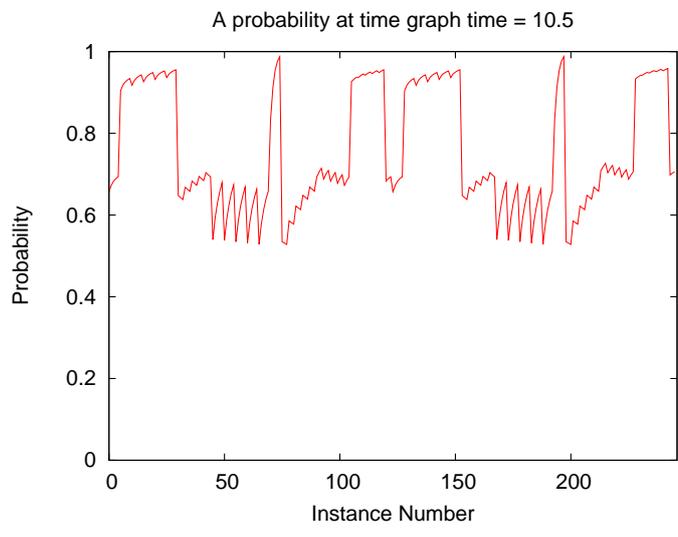


Figure 249: A time-at graph showing probability vs instance of model number at time: 10.5

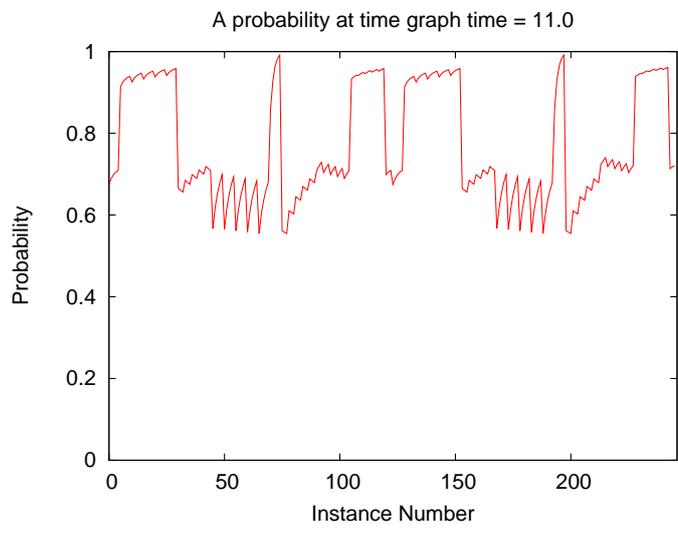


Figure 250: A time-at graph showing probability vs instance of model number at time: 11.0

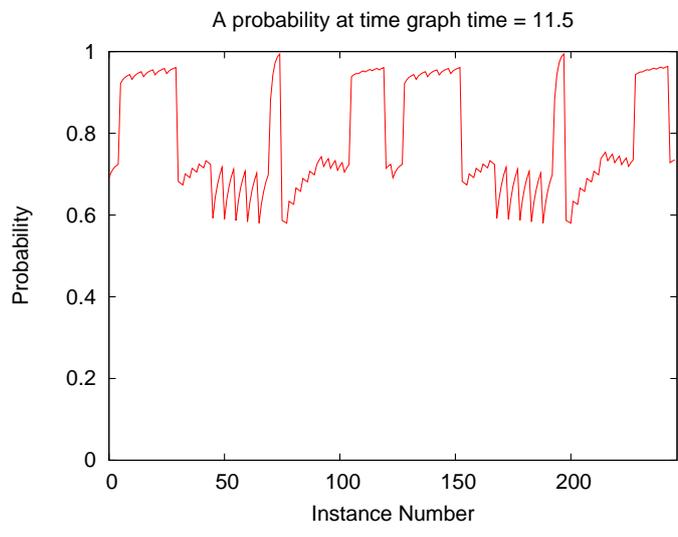


Figure 251: A time-at graph showing probability vs instance of model number at time: 11.5

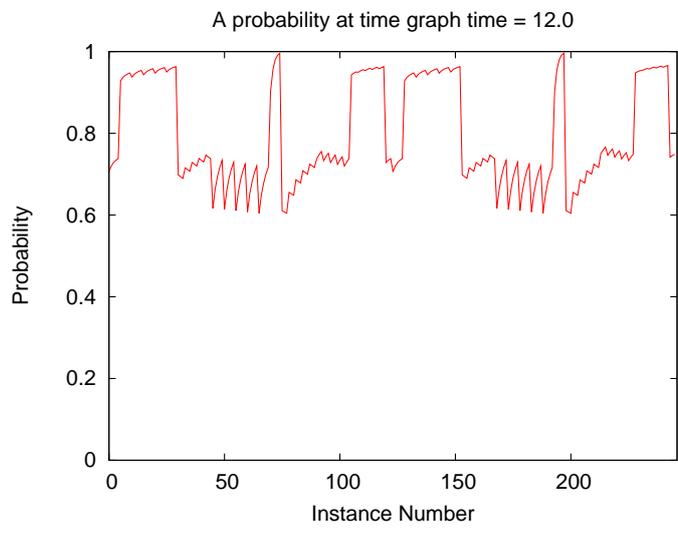


Figure 252: A time-at graph showing probability vs instance of model number at time: 12.0

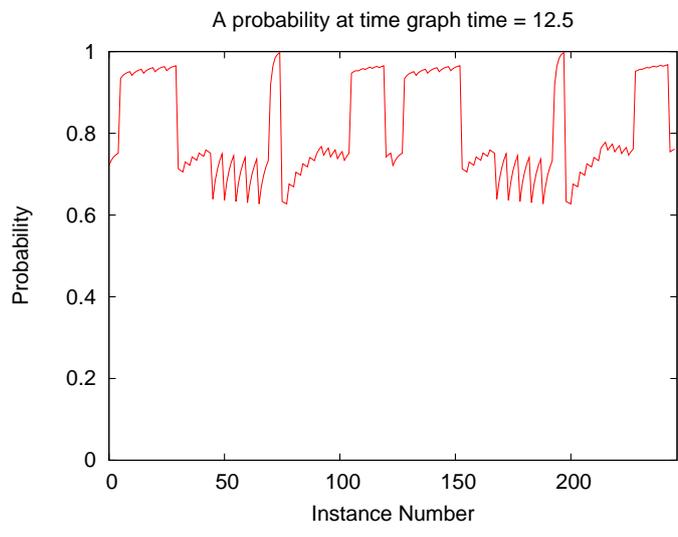


Figure 253: A time-at graph showing probability vs instance of model number at time: 12.5

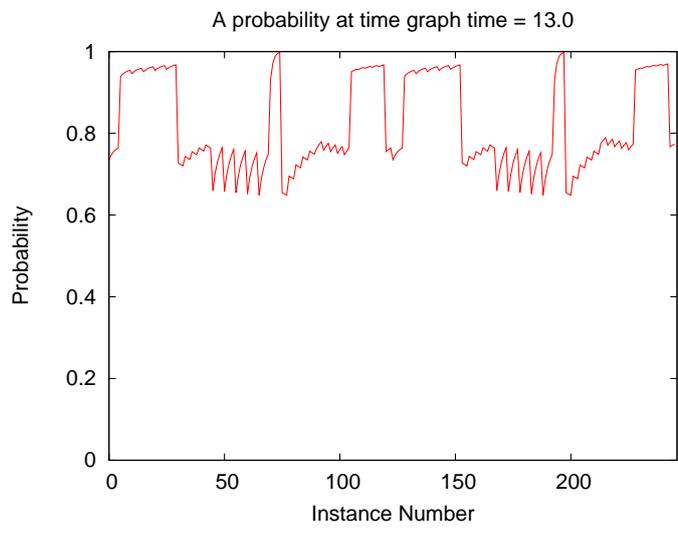


Figure 254: A time-at graph showing probability vs instance of model number at time: 13.0

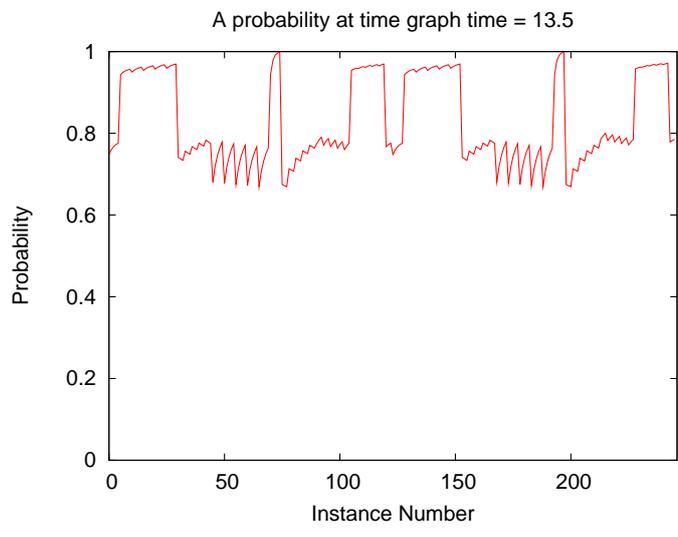


Figure 255: A time-at graph showing probability vs instance of model number at time: 13.5

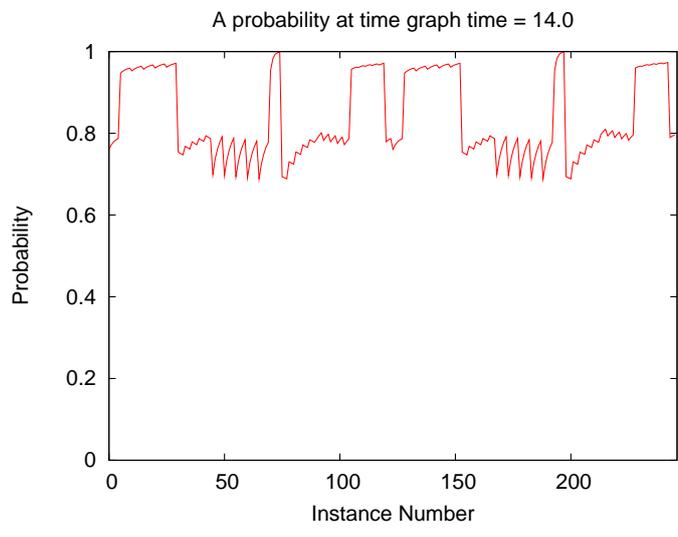


Figure 256: A time-at graph showing probability vs instance of model number at time: 14.0

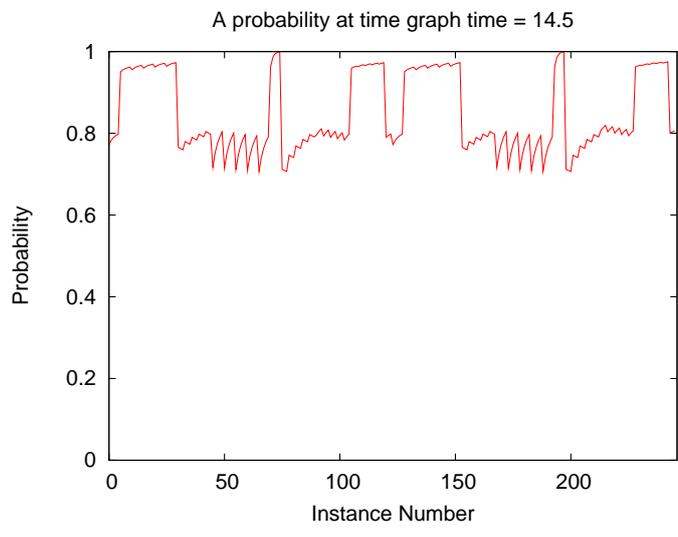


Figure 257: A time-at graph showing probability vs instance of model number at time: 14.5

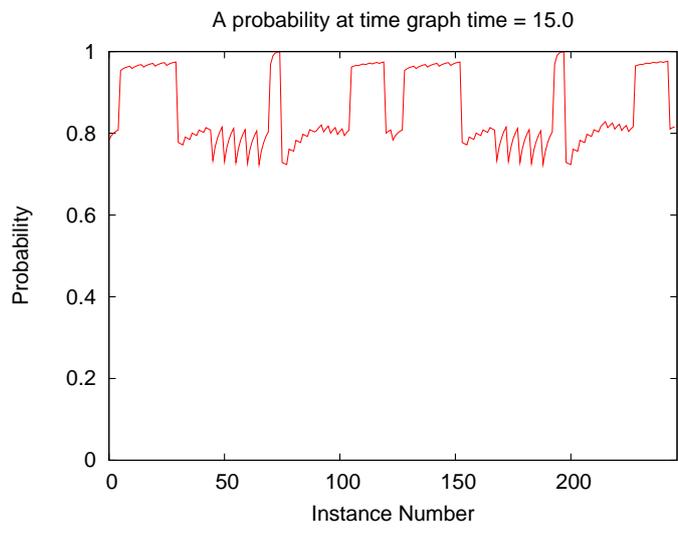


Figure 258: A time-at graph showing probability vs instance of model number at time: 15.0

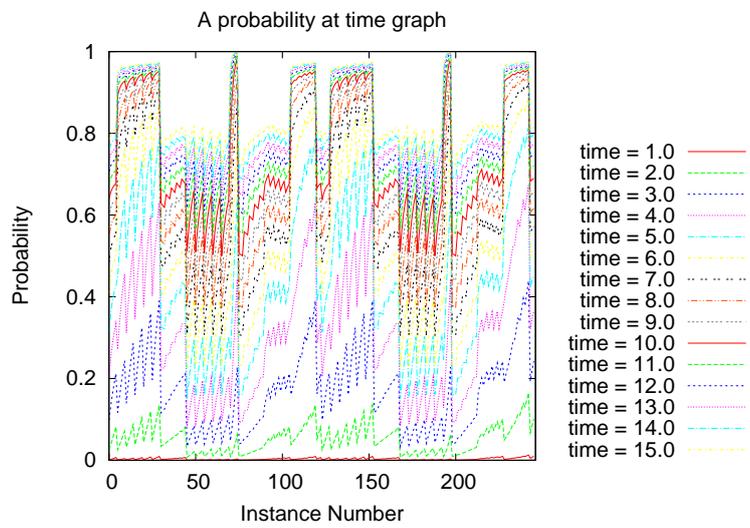


Figure 259: A time-at graph showing probability vs instance of model number at the times shown

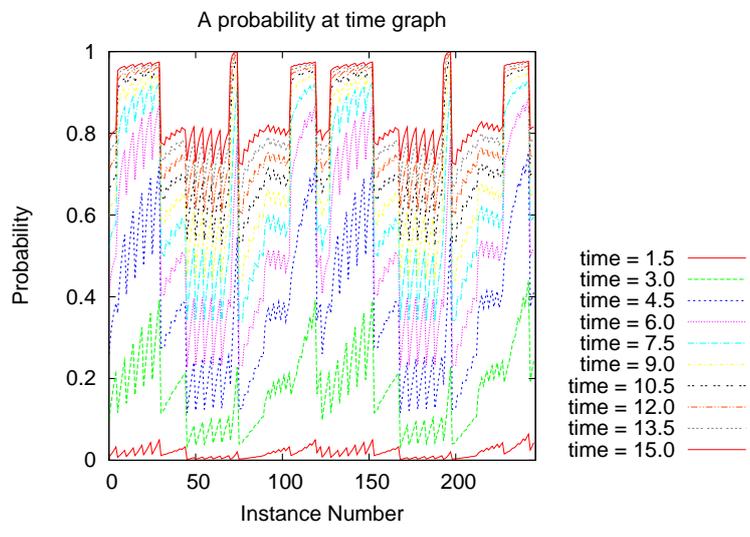


Figure 260: A time-at graph showing probability vs instance of model number at the times shown

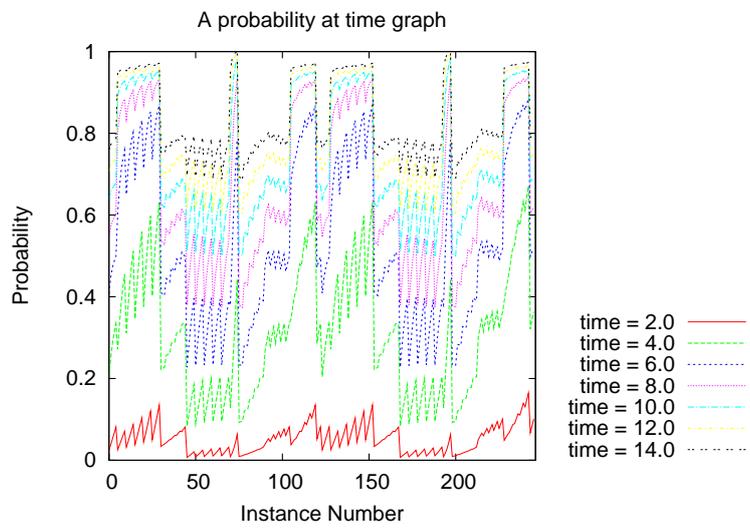


Figure 261: A time-at graph showing probability vs instance of model number at the times shown

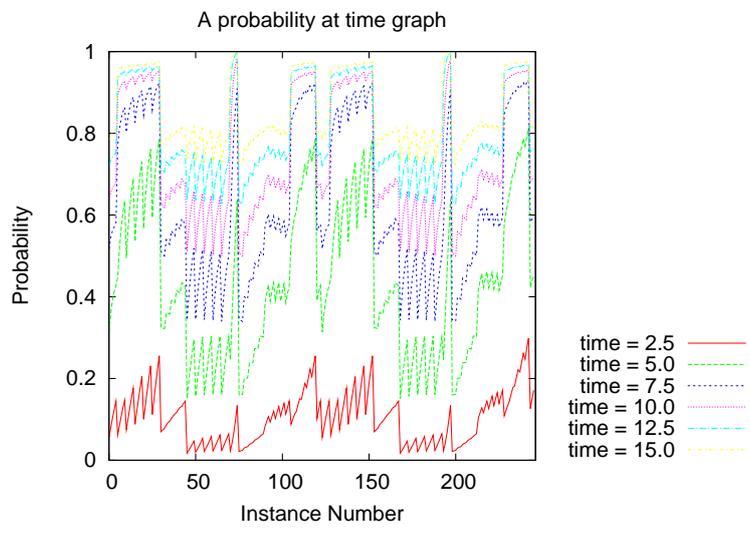


Figure 262: A time-at graph showing probability vs instance of model number at the times shown

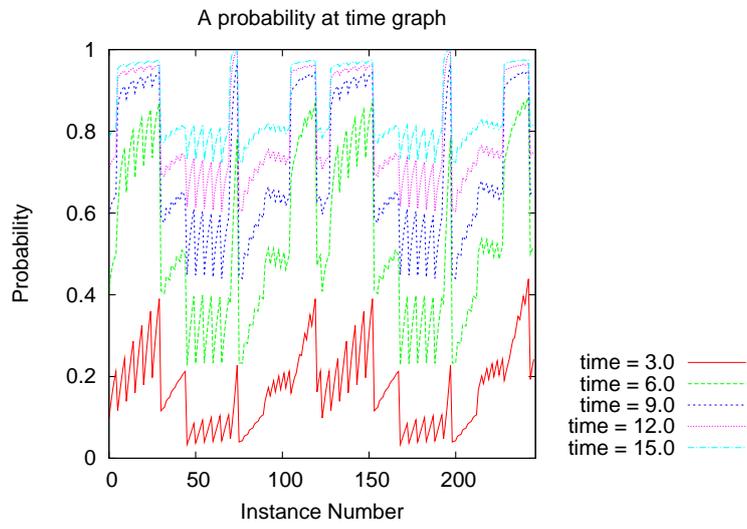


Figure 263: A time-at graph showing probability vs instance of model number at the times shown

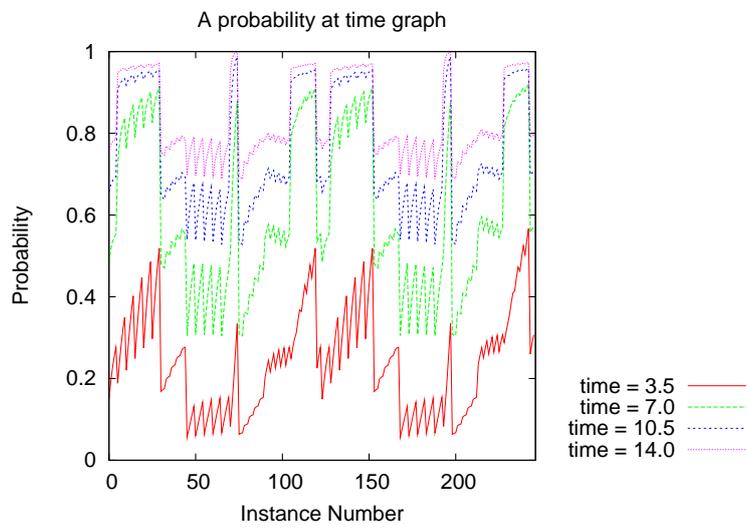


Figure 264: A time-at graph showing probability vs instance of model number at the times shown

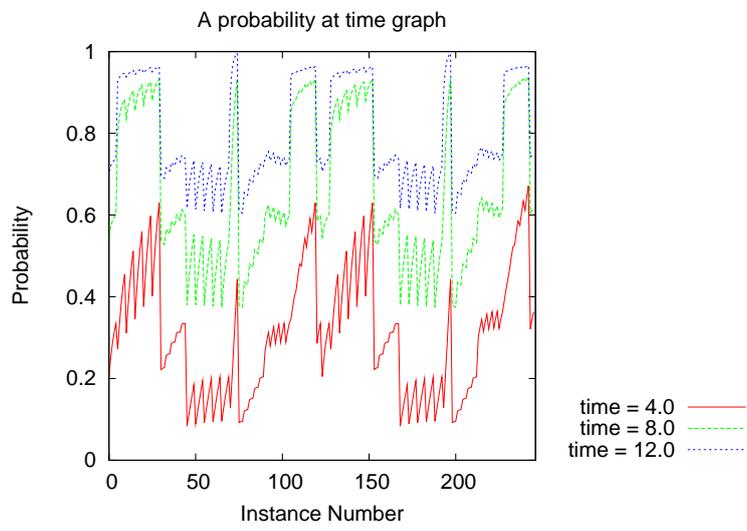


Figure 265: A time-at graph showing probability vs instance of model number at the times shown

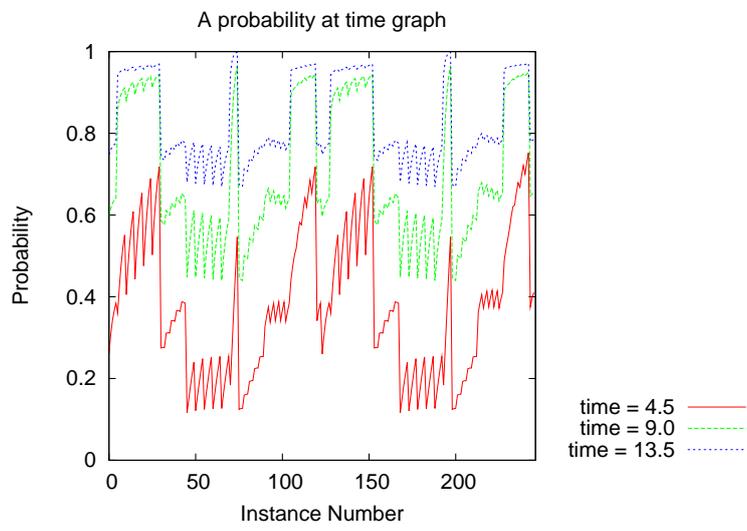


Figure 266: A time-at graph showing probability vs instance of model number at the times shown

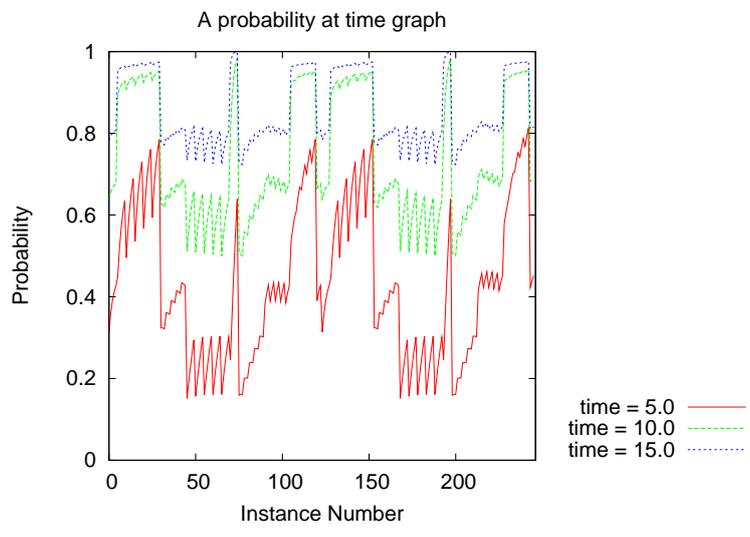


Figure 267: A time-at graph showing probability vs instance of model number at the times shown

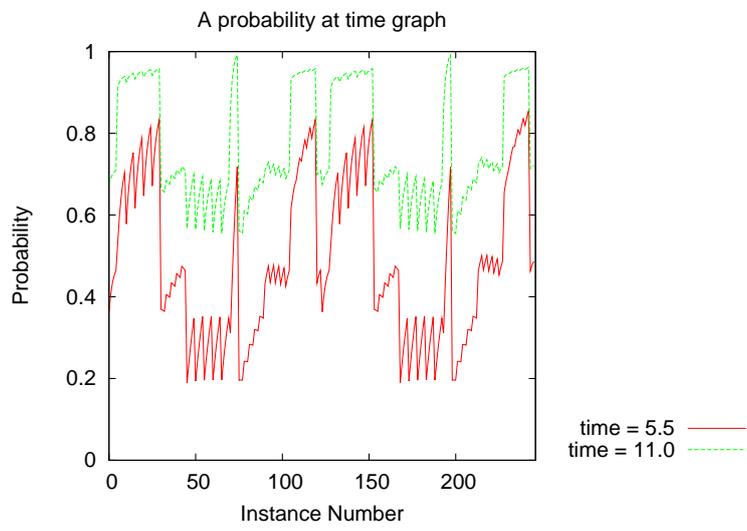


Figure 268: A time-at graph showing probability vs instance of model number at the times shown

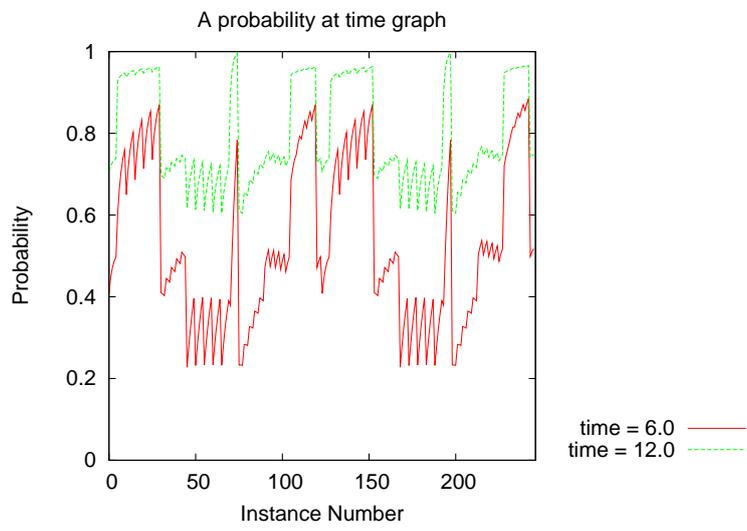


Figure 269: A time-at graph showing probability vs instance of model number at the times shown

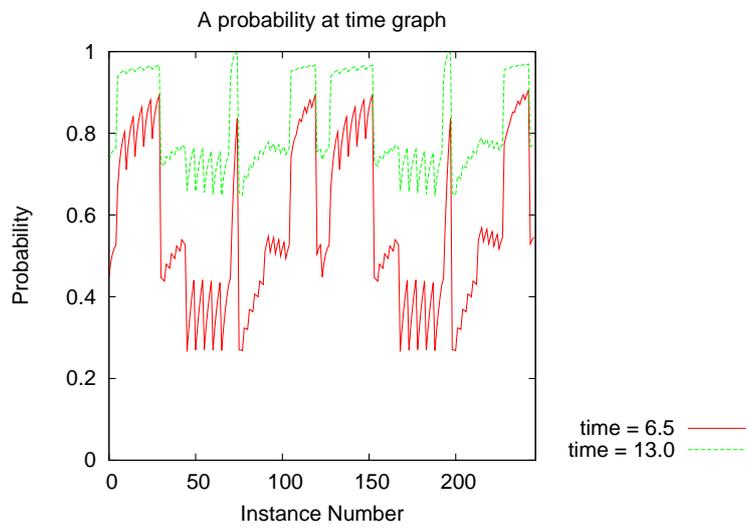


Figure 270: A time-at graph showing probability vs instance of model number at the times shown

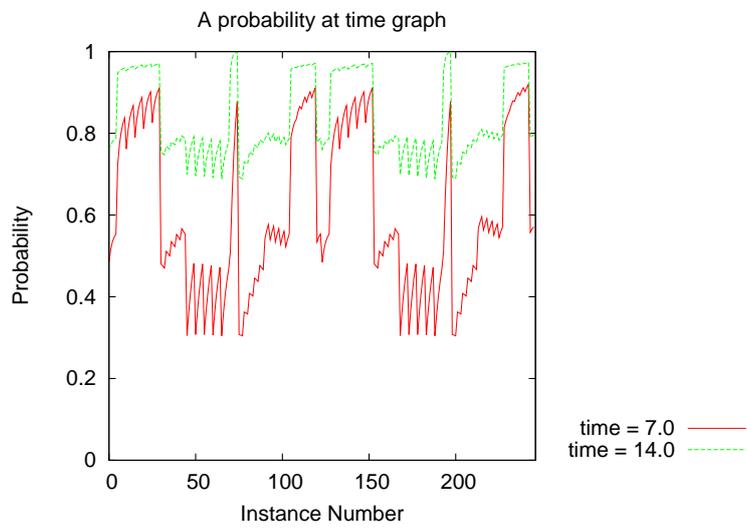


Figure 271: A time-at graph showing probability vs instance of model number at the times shown

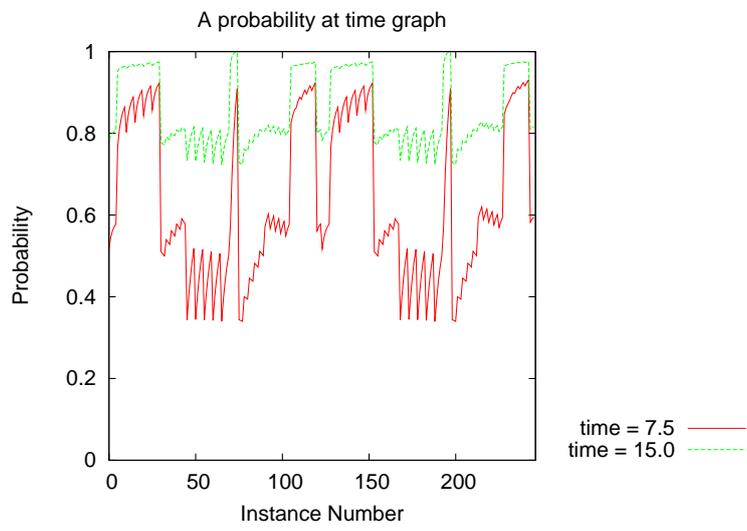


Figure 272: A time-at graph showing probability vs instance of model number at the times shown

## List of Figures