E-Commerce example

used in the paper: “CloudOpt: Multi-Goal Optimization of Application Deployments across a Cloud” by Jim ZW Li, Murray Woodside, John Chinneck, Marin Litoiu, Proc. 7th Int. Conf on Network and Service Management, Paris, Oct 2011,

which deals with optimal deployment with replicated (scaled-out) servers in a cloud.

Diagram not showing the processors:

eUserBehav

[171]

UserClass

{287}

eStoreAccess

[2]

WebServer

{90}

eReadImage

[1]

ImageDisk

{1}

eOrder

[2.04]

StoreApp

{90}

eBrowse

[3]

eBuy

[30]

ShoppingCart

{10}

eCustUp

[1.2]

CustomerDB

{1}

eCustRd

[3]

eFWrite

[1,3]

FileServer

{10}

eFRead

[3]

( 1 )

( 0.913 )

( 2.5 )

( 0.0873 )

( 2.1 )

( 3 )

( 1.2 )

( 1 )

( 1.8 )

eUpdate

[1,10]

InventoryDB

{7}

eRead

[14.3]

( 1 )

( 1 )

( 2.5 )

( 4 )

( 1 )

( 1 )

( 1 )

The model file generates models with random parameters.