Periodic Dissemination Report
Deliverable D6.2

Nature : Deliverable
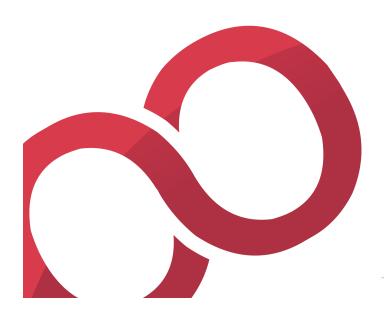
Due date : 31/01/2009

Delivery Date: 28/01/2009

Start date of project : 01/02/2008

Duration : 36 months

Distribution: Public

Web site: www.mancoosi.org   **Blog:** blog.mancoosi.org

Specific Targeted Research Project
Contract no.214898
Seventh Framework Programme: FP7-ICT-2007-1

<div align="center">List of the authors</div>

Project acronym	MANCOOSI
Project full title	Managing the Complexity of the Open Source Infrastructure
Project number	214898
Authors list	Roberto Di Cosmo ⟨roberto@dicosmo.org⟩
	Sophie Cousin ⟨sophie.cousin@univ-paris-diderot.fr⟩
	Arnaud Laprevote ⟨laprevote@edge-it.com⟩
	Vanessa Wall ⟨vwall@mandriva.com⟩
Internal review	
Workpackage number	WP6
Deliverable number	2
Document type	Deliverable
Version	1
Due date	31/01/2009
Actual submission date	28/01/2009
Distribution	Public
Project coordinator	Roberto Di Cosmo ⟨roberto@dicosmo.org⟩

Contents

1   Introduction

This report describes the dissemination activities related to the Mancoosi project over the first period of the project, starting on February 1st, 2008 and ending on January 31, 2009. The report first describes the server infrastructure used to disseminate information related to Mancoosi. It then gives an overview of the coverage of Mancoosi in the press. Then, it gives a detail of the publications within the scope of the project and finally, the appendix provides a summary of the partners dissemination activities.

2   The Mancoosi Project Server Infrastructure

The Mancoosi project dissemination and collaboration infrastructure has been chosen and built using mostly free software components, and is open to the public for review and collaboration. This infrastructure consists of a web site, a weblog, a wiki and a series of mailing lists.
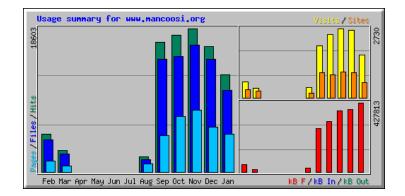
2.1   Website Organization and Access Logs

The domain name `mancoosi.org` was reserved and bought in 2007. The URL `http://www.mancoosi.org` points to a set of web pages that contain a description of the project, a description of the objectives of each technical workpackage, links to the partners web sites and all the Mancoosi deliverables, papers and technical reports. Given that Mancoosi follows up on the research work already undertaken in the scope of the FP6 EDOS project, the Mancoosi web site points a page dedicated to results from EDOS dependency checking. The home page also has a link to the Mancoosi weblog.

The web pages are fully compliant with the W3C web standards and have been built taking into consideration accessibility issues for the visual impaired, by avoiding script languages, and using Cascading Style Sheets to decorate the information, which is fully available to any e-visitors, even the ones resorting to text-based browsers like `lynx`, which are customary among the visual impaired.

2.2   Visits to the Mancoosi Web Site

From the launch of the project, we have been collecting statistics on the hits to the Mancoosi web site. The graph and table below show the visits to the Mancoosi web site since February 2008.

Summary by Month												
Month	**Daily Avg**				**Monthly Totals**							
	Hits	**Files**	**Pages**	**Visits**	**Sites**	**kB F**	**kB In**	**kB Out**	**Visits**	**Pages**	**Files**	**Hits**
Jan 2009	601	504	231	80	601	427813	0	0	1685	4866	10590	12639
Dec 2008	524	470	188	86	991	384386	0	0	2671	5829	14595	16253
Nov 2008	620	548	266	91	1023	377655	0	0	2730	7986	16455	18603
Oct 2008	573	483	230	80	902	311484	0	0	2505	7153	14978	17766
Sep 2008	559	488	157	67	988	266940	0	0	2038	4718	14649	16772
Aug 2008	98	79	50	19	168	23288	0	0	397	1017	1596	1963
Mar 2008	146	125	41	19	257	16093	0	0	369	789	2379	2776
Feb 2008	167	144	48	21	332	46079	0	0	619	1407	4196	4867
Totals						1853737	0	0	13014	33765	79438	91639

The data above show a regular interest to the web site during the first six months of the project, i.e. from the beginning of the project to August 2008. The Mancoosi web site has experienced a significant peak in the number of its visitors from the launch of the press release in September 2008.

2.3 The Mancoosi Weblog

The Université Paris Diderot team has set up a weblog to allow members of the Consortium to post entries related to the various activities of the project[1].

The Mancoosi partners are encouraged to post any entry related to Mancoosi activities (the Mancoosi collaboration meetings, pictures at a conference, related results, etc.) on the weblog to disseminate Mancoosi activities in an informal way. It is a multi author blog based on `Dotclear`. Anybody (who has been given the rights to do so) can post, still preserving his identity as post author.

Up to now, 14 posts have been posted since April 2008 to inform the wide public on Mancoosi meetings, conferences related to the research work of Mancoosi, articles written and published within the scope of the project, etc.

2.4 Collaborative Infrastructure

An open source collaborative platform has been set up by the Edge-IT team to allow discussion among the members of the consortium, using a server deploying the `XWiki` wiki implementation[2]. The wiki is a private platform by default that allows members to share information, documents and files related to Mancoosi. The wiki contains a significant collection of information useful for collaboration within the consortium, such as calls for papers, articles resulting from the work accomplished within the project, presentations at conferences, deliverables, agendas, slides and minutes of all the consortium meetings and bulletins on administrative issues.

A section of the wiki is dedicated to administrative issues and management of the project and only gives access to the coordination team at Université Paris Diderot.

---

[1] http://blog.mancoosi.org/

[2] http://mancoosi.xwiki.com/xwiki/

2.5   Open Source Mailing List Server

In addition to the web site, the weblog and the collaborative platform, the members of Université Paris Diderot have deployed a series of internal mailing lists, based on the French open source `Sympa` mailing list manager. Members of the Consortium as a whole use these mailing lists for scientific, administrative and coordination issues.

Each technical workpackage has its mailing list. Reasearchers and programmers interested in cooperating with Mancoosi can ask for subscription to one or more of these technical mailing lists.

3   Mancoosi in the Press and on the Web

3.1   Mancoosi in the Press

The press release presenting Mancoosi to the public was launched by Edge-IT's communication team on September 4, 2008. The text of the English version is as follows:

MANCOOSI – MAnaging the COmplexity of the Open SOurce Infrastructure

A consortium consisting of 10 research institutions and industrial partners from 6 different countries is launching the MANCOOSI project, an EU-funded research project aiming at improving support for software upgrades in the field of Free and Open Source software.

MANCOOSI, standing for MANaging the COmplexity of the Open Source Infrastructure, has a total budget of 4.4 million euros, including a 3.3 million euros funding from the European Union.

Free and Open Source software is developed through the cooperation of volunteer programmers, public institutions, and software industry. This mode of development guarantees transparency of the inner working of the software, and encourages users to become contributors themselves. Free and Open Source software continues to gain its share among system installations, not only among home users but also among power users in industry, public institutions, and Internet services.

Free and Open Source software usually evolves in a rapid succession of new versions. Software developed and published in this way is bundled into packages by software distributions for easy deployment and installation, as for instance distributions of the GNU/Linux operating system and its huge collection of application software. These collections of available packages are constantly updated for the benefit of the user who needs the latest versions of software products, to fix security issues for instance. Consistent distributions of these software packages are published by editors, which may be released in updated versions several times a year, but over time each user's machine inevitably ends up with a unique mixture of software components coming from different versions of her preferred distribution, and also from external sources. Maintaining the set of components installed on a machine in a consistent state is a daunting task that is becoming recurrent.

The rapid evolution of the software base makes upgrades a recurrent task that needs to be both safe and easy, for home users that do not want to waste time on system

administration, and as smooth as possible for power users that cannot afford system downtime due to failed upgrades.

This is a difficult task: a free software distribution is made up of dozens of thousands of software packages, interconnected by complex dependency and conflict relationships which change with the evolution of the software packages. As a consequence, even when a user wants to upgrade a single package it may be necessary to remove or install many other packages on the system. Finding an upgrade path of a complex software installation is a complex task in terms of algorithms, and finding a path taking into account the preferences or resource constraints of the user is even more difficult.

To address this challenging problem, the MANCOOSI project will:

- define formal models of a software platform and add transactional support to existing tools to ensure that it is possible to unroll a failed upgrade attempt;
- develop specialized algorithms and tools for the discovery and optimization of upgrade paths
- mobilize a large research community to take part in an international competition for solving upgrade and other maintainability issues collected as a corpus of actual, real-world descriptions of upgrade failures

Did you know?

Some of the Mancoosi partners have collaborated in the framework of the EDOS project which was devoted to the specific problem of building Linux distributions. This has led – among the various other results of the EDOS project – to the development of groundbreaking tools that allow to efficiently check the consistency of a set of packages: these tools are today succesfully adopted and used daily in mainstream Linux distributions ranging from Caixa Magica, to Debian and Mandriva.

The main target of the project is the Free and Open Source infrastructure, as it provides a real-world example of what tomorrow's complex, quickly changing software systems will look like, but the applicability of these models and algorithms goes far beyond Free and Open Source software, and technologies developed in Mancoosi will pave the way to the maintainability of the software systems of the future, especially for systems of systems, even when they are not Free or Open Source. To achieve Mancoosi's goals, the consortium brings together a mixture of actors, ranging from industry to academia to user communities. Mancoosi's Partners are:

- Université Paris Diderot – Paris 7 (France) (Coordinator)
- Edge-IT (France)
- Università degli Studi dell'Aquila (Italy)
- INESC-ID (Portugal)
- Caixa Mágica (Portugal)
- Université de Nice Sophia Antipolis (France)
- Tel Aviv University (Israël)
- ILOG (France)
- Université Catholique de Louvain (Belgium)

- Pixart (Argentina)

For further informations, please contact:
Prof. Roberto Di Cosmo
Mancoosi Coordinator
E-mail: roberto@dicosmo.org
WWW : http://www.mancoosi.org
Université Paris Diderot – Paris 7
Case 7014
175, rue du chevaleret
75205 Paris Cedex 13 - FRANCE

The press release has been translated in French, Italian and Portuguese. The translated versions are available in pdf format on the Mancoosi web site[3].

Many articles followed in the specialised press. Below are examples of French articles presenting Mancoosi published in September 2008 that appeared on web magazines such as 01net, ZDNet, the web site of the Nouvel observateur, a well-known French magazine, linuxfr.org, Le Journal du Net and in GNT (Generation Nouvelles Technologies). They are presented in chronological order.

- *Compte-rendu 2ème séminaire GT Logiciel Libre System@tic : EDOS et Mancoosi (2/2)*, 30/05/2008, Weblog pro Olivier Berger[4];

- *The Mancoosi research project*, August 2008, DebConf8 web site[5];

- *Mancoosi: un projet européen dédié aux mises à jour de logiciels libres*, 04/09/2008, ZDNet[6];

- *Mancoosi: un projet européen dédié aux mises à jour de logiciels libres*, 04/09/2008, Nouvel observateur web site[7];

- *Ilog: partenaire du projet Mancoosi*, 04/09/2008, Le Journal du Net, Economy section[8];

- *Mancoosi: un projet européen dédié aux mises à jour de logiciels libres*, 04/09/2008, lexpansion.com[9];

- *Le projet Mancoosi vise à améliorer les mises à jour de logiciels libres*, 04/09/2008, itr-manager.com[10];

- *Ilog: partenaire du projet Mancoosi*, 04/09/2008, challenges.fr[11];

---

[3]http://www.mancoosi.org/news.html
[4]http://tinyurl.com/ajsnoq
[5]https://penta.debconf.org/dc8_schedule/events/251.en.html
[6]http://www.zdnet.fr/actualites/informatique/0,39040745,39383031,00.htm?xtor=RSS-1
[7]http://tempsreel.nouvelobs.com/depeches/medias/multimedia/20080905.ZDN6595/mancoosi__un_projet_europeen_dedie_aux_mises_a_jour_de_.html
[8]http://www.journaldunet.com/economie/actualite/depeche/boursier/24/554519/ilog_partenaire_du_projet_mancoosi.shtml
[9]http://tinyurl.com/ameh3w
[10]http://www.itrmanager.com/articles/81240/projet-mancoosi-vise-ameliorer-mises-jour-logiciels-libres.html
[11]http://bourse.challenges.fr/news.hts?menu=news_actualites&urlAction=news.hts%3Fmenu%3Dnews_actualites&idnews=FPS080904_20298503&numligne=29&date=080904

- *Ilog: partenaire du projet Mancoosi*, 04/09/2008, Yahoo France, Finance[12];

- *Mancoosi: un projet européen dédié aux mises à jour de logiciels libres*, 05/09/2008, lejournaldelinfo.canalblog.com[13];

- *Mancoosi: l'Europe se bouge pour les mises à jour de logiciels libres*, 05/09/2008, linformaticien.com[14];

- *Le projet européen Mancoosi veut optimiser les mises à jour des logiciels open source*, 05/09/2008, 01net[15];

- *Open Source: lancement d'un projet de recherche sur le versioning*, 05/09/2008, Le Journal du Net, Solutions section[16];

- *L'Europe se concerte pour optimiser la mise à jour des logiciels libres*, 05/09/2008, atelier.fr[17];

- *Mancoosi : mises à jour de logiciels libres*, 05/09/2008, editoblog.eu[18];

- *Mancoosi: un projet européen dédié aux mises à jour de logiciels libres*, 05/09/2008, opensource.tn[19];

- *Mancoosi: un projet européen dédié aux mises à jour de logiciels libres*, 06/09/2008, linuxfr.org[20];

- *L'Europe finance l'amélioration de la maintenabilité du logiciel libre*, 08/09/2008, cio-online.com[21];

- *Open source: Mancoosi veut réinventer la mise à jour logicielle*, 08/09/2008, Le Mag IT, l'informatique pour et par les pros[22];

- *Mancoosi: vers une maintenance uniformisée du logiciel?*, 08/09/2008, GNT (Generation Nouvelles Technologies)[23];

- *Mancoosi: vers une maintenance uniformisée du logiciel?*, 08/09/2008, GNT, Génération Nouvelles technologies[24];

- *Mancoosi met à jour des logiciels libres*, 10/09/2008, editoweb.eu[25];

---

[12]http://fr.biz.yahoo.com/04092008/17/ilog-partenaire-du-projet-mancoosi.html

[13]http://lejournaldelinfo.canalblog.com/archives/2008/09/05/10477374.html

[14]http://www.linformaticien.com/Actualit%E9s/tabid/58/newsid496/4912/
mancoosi-l-europe-se-bouge-pour-les-maj-de-logiciels-libres/Default.aspx

[15]http://tinyurl.com/c27s98

[16]http://tinyurl.com/atnprg

[17]http://www.atelier.fr/recherche/10/05092008/collaboration--europe--logiciels--mancoosi-37099-.
html

[18]http://www.editoblog.eu/Mancoosi-mises-a-jour-de-logiciels-libres_a57.html

[19]http://www.opensource.tn/fr/articles.php?artid=318

[20]http://linuxfr.org/2008/09/06/24457.html

[21]http://tinyurl.com/bowu5s

[22]http://tinyurl.com/dcmjxw

[23]http://www.generation-nt.com/mancoosi-maintenance-mise-jour-logiciel-libre-linux-actualite-148441.
html

[24]http://www.generation-nt.com/mancoosi-maintenance-mise-jour-logiciel-libre-linux-actualite-148441.
html

[25]http://www.editoweb.eu/Mancoosi-met-a-jour-des-logiciels-libres_a10977.html

- *Roberto Di Cosmo: "Mancoosi est un projet de RD avec une approche scientifique"*, 12/09/2008, eweekeurope.fr[26];

- *Projet Mancoosi: nouveau projet lancé par un consortium de 10 partenaires industriels et académiques internationaux de la recherche*, September 2008, mag-securs.com, Le Magazine de la sécurité informatique[27];

- *Les distributions Linux améliorent leur sécurité*, 16/10/2008, eweekeurope.fr[28];

- *Solving package dependencies: from EDOS to Mancoosi*, November 2008, HAL Servor[29];

Below are examples of articles that appeared in the Argentinean press, even before the project became active:

- *Pixart es parte del proyecto Mancoosi*, October 24, 2007, Espacio Linux[30];

- *Pixart Argentina es parte del proyecto Mancoosi*, October 24, 2007, VivaLinux![31];

- *Pixart elegida por la Comunidad Europea*, November 1, 2007, canal-ar.com.ar[32];

- *Entrevista sobre Pixart en el proyecto Mancoosi*, November 2, 2007, SoftwareLibre.Net[33];

- *Proyecto Mancoosi: por Argentina, va Pixart*, November 4, 2007, Tecnozona[34];

A presentation of the project also appeared on the Portuguese magazine online, Semana Informática n.877, April 4-10 2008[35] and on the Portuguese web magazine Tek on March 18, 2008[36].

Morover, Ralf Treinen from Université Paris Diderot wrote the monthly column "Debianopolis" for the issue 1/2009 of the German Linux Magazin highlighting the benefits of EDOS and Mancoosi to the debian project[37].

3.2   Mancoosi on the Web

When typing Mancoosi on *Google*, we discovered that an entry on the project has been added to *Wikipedia* with a link to the project web site in March 2008. Though short, this entry shows an interest for the project and its thematic. The entry goes as follows:

> The consortium MANCOOSI (MANaging the COmplexity of the Open Source Infrastructure) is a project financed by European Union that it has as primary target

---

[26]http://tinyurl.com/cekmty
[27]http://www.mag-securs.com/spip.php?article11444
[28]http://www.eweekeurope.fr/news/les-distributions-linux-ameliorent-leur-securite-177
[29]http://hal.archives-ouvertes.fr/hal-00340581/fr/
[30]http://actualidad.espaciolinux.com/2007/10/24/787/
[31]http://www.vivalinux.com.ar/biz/pixart-en-mancoosi.html
[32]http://www.canal-ar.com.ar/Noticias/NoticiaMuestra.asp?Id=5088
[33]http://www.softwarelibre.net/entrevista_sobre_pixart_en_el_proyecto_mancoosi
[34]http://www.tecnozona.com.ar/?q=node/1197
[35]http://www.semanainformatica.xl.pt/877/act/200.shtml
[36]http://tek.sapo.pt/Arquivo/entidades_portuguesas_participam_em_projecto_811838.html
[37]http://www.linux-magazin.de/heft_abo/ausgaben/2009/01

the creation of a solid and flexible estructure for the handling of packages, controller and library in operating systems based on UNIX and standardize the packages dominated by APT for DEB and RPM.

Between the participants is: University of Diderot, Edge-IT, Mandriva, Caixa Mágica, Tel Aviv University, Pixart, and others.

4 Mancoosi Conferences and Publications

A significant effort has been made over the first year of the project to raise interest in Mancoosi and its research theme among the scientific community.

The following articles have been **accepted** for publication:

- New Encodings from Max-CSP into Partial Max-SAT, 39th International Symposium on Multiple-Valued Logic (ISMVL 2009), May 21-23, 2009, Naha, Okiwana, Japan, by Josep Argelich, Alba Cabiscol, Inês Lynce and Felip Manyà.

- Optimized Union of Non-Disjoint Distributed Data Sets, EDBT'09, March 2009, Saint Petersburg, Russia, by Itay Dar, Tova Milo and Elad Verbin.

- CNF Instances from the Software Package Installation Problem, RCRA'08, December 12-13, 2008, Udine, Italy, by Josep Argelich and Inês Lynce.

- Package Upgrades in FOSS Distributions: Details and Challenges, HotSWUp'08, October 20, 2008, Nashville, USA, by Roberto Di Cosmo, Paulo Trezentos and Stefano Zacchiroli.

- Managing Model Conflicts in Distributed Development, MODELS 2008, September 28 – October 3, 2008, Toulouse, France, by Antonio Cicchetti, Davide Di Ruscio and Alfonso Pierantonio.

- Automating Model Co-evolution in Model-Driven Engineering, EDOC 2008, September 15-19, 2008, München, Germany, by Antonio Cicchetti, Davide Di Ruscio, Romina Eramo and Alfonso Pierantonio.

- On SAT Technologies for Dependency Management and Beyond, Workshop ASPL08, September 2008, Limerick, Ireland, by Daniel Le Berre, Université d'Artois.

- Solving Package Dependencies: From EDOS to Mancoosi, DebConf'08, Mar del Plata, Argentina, August 2008, by Ralf Treinen and Stefano Zacchiroli.

- Enriching Topic-Based Publish-Suscribe Systems with Related Content, SIGMOD'08, June 12, 2008, Vancouver, Canada, by Rubi Boim and Tova Milo.

- Meta-model Differences for Supporting Model Co-evolution, 2nd Int. Workshop on Model-Driven Software Evolution (MoDSE 2008), Athens, Greece, April 1-4, 2008, by Antonio Cicchetti, Davide Di Ruscio, Romina Eramo and Alfonso Pierantonio.

The following article has been **submitted** for publication:

- Towards a Model Driven Approach to Upgrade Complex Software Systems, 4th International Working Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2009), May 6-10, 2009, Milan, Italy, by Antonio Cicchetti, Davide Di Ruscio, Patrizio Pelliccione, Alfonso Pierantonio and Stefano Zacchiroli.

The articles above mention that the research carried out has received funding from the European Community's Seventh Framework Programme.

5   Conclusion

Considering that the project has only been running for one year so far, the project members have already been very active in promoting the work done within the scope of the project and we consider this first year as successful in raising interest in Mancoosi. We, of course, all intend to keep promoting our research activities and results as much as possible by publishing more articles, keeping attending conferences during the two remaining years of the project and through the organisation of workshops, one halfway through the course of the project and one at the end of the project, the aim of which will be to promote interest within the community for the Mancoosi research topics and technologies.

A   Summary of Partners Dissemination Activities

Below are lists of the partners dissemination activities related to Mancoosi also available for the whole consortium on a page dedicated to Workpackage 6 (Dissemination) in the consortium wiki[38].

A.1   Université Paris Diderot – Paris 7 (UPD)

Alongside setting up part of the Mancoosi collaborative infrastructure, members of Université Paris Diderot – Paris 7, as Coordinator of the project, have been keen on being very active all over the first year in carrying out dissemination activities related to Mancoosi.

Ralf Treinen delivered a talk on Mancoosi at FOSDEM 2008[39] on February 24, 2008 in Brussels, Belgium. The slides are available on the wiki.

Roberto Di Cosmo gave a presentation of Mancoosi at the Groupe Thématique de Logiciel Libre de la région de Paris[40] on May 28, 2008 in Paris, France. The slides (in French only) are available on the wiki.

Ralf Treinen and Jaap Boender attended the Linux Tag on May 29-30, 2008 in Berlin, Germany. Jaap Boender gave a presentation of Mancoosi at the Research Room there.

Jaap Boender gave a presentation on pkgsrcCon 2008 in June 2008 in Berlin, Germany, and had a discussion on the utility of the Mancoosi tools for pkgsrc.

Stefano Zacchiroli was invited to give a presentation of Mancoosi and EDOS—the FP6 project in which Université Paris Diderot was involved before Mancoosi—at University of Lugano on

---

[38]http://mancoosi.xwiki.com/xwiki/bin/view/Project/WP6
[39]http://libresoft.es/Activities/Research_activities/fosdem2008
[40]http://www.systematic-paris-region.org/fr/logiciel/index.html

July 7, 2008 in Lugano, Switzerland. The slides are available on the wiki. A description of the event is available on the University of Lugano web site[41].

Ralf Treinen attended the RTA'08 Conference on Rewriting Techniques and Applications in July 2008 in Hagenberg, Austria, where he was invited to give a presentation at the workshop of the IFIP group 1.6 on Term Rewriting.

Jaap Boender attended a workshop at QACOS 2008 entitled The IEEE International Workshop on Quality and Architectural Concerns in Open Source Software, session 3, Software Quality and Open Source Software[42], where he presented the project in July 2008 in Turku, Finland.

Ralf Treinen and Stefano Zacchiroli presented the project at DebConf8[43] in August 2008 in Mar del Plata, Argentina. The paper and slides are available on the wiki. A presentation of the project is available on the web site of the conference[44].

Daniel Le Berre from Université d'Artois presented an article related to the work of Mancoosi at the ASPL08 Workshop on September 12, 2008 in Limerick, Ireland. Feature model researchers have to solve dependency problems very similar to the ones Mancoosi is working on, on a different scale (Linux distributions have in general much more packages than software product lines) but with more expressive constraints. The aim of the talk was to present the kind of constraints currently used to solve dependency problems in the new Eclipse provisioning platform, codename p2, based on the Mancoosi predecessor project EDOS.

Stefano Zacchiroli and Paulo Trezentos (Caixa Mágica) attended the 1st ACM workshop on Hot Topics in Software Upgrade (HotSWUp'08)[45] on October 20, 2008 in Nashville, Tennessee, USA. There they gave a presentation about a paper co-authored with Roberto Di Cosmo discussing the state of the art and challenges of package upgrades in free software distributions, also outlining the research directions being pursued by Mancoosi.

Roberto Di Cosmo presented the Mancoosi project at the Open Source World Conference[46] on October 21, 2008 in Malaga, Spain.

Roberto Di Cosmo took part to a panel discussion on "Open Source Governance" organised by Inforav, the Italian institute for advanced information technology and other institutes on October 28, 2008 in Rome, Italy. The aim of the meeting was to debate how to best procure, use and manage Open Source software and was an opportunity for Roberto Di Cosmo to talk about Mancoosi.

Roberto Di Cosmo and Ralf Treinen gave an introduction to Open Source Software at "La Fête de la science" organised on the premises of Université Paris Diderot – Paris 7 on November 21, 2008 and took this opportunity to present their work within the scope of Mancoosi to local students.

Stefano Zacchiroli attended the Debian Quality Assurance meeting[47] from November 26 to November 30, 2008 in Cáceres, Spain. There he discussed and planned the integration of several tools of the former EDOS suite (`pkglab`, `edos-debcheck`, etc.) in the upload infrastructure currently used by the Debian project.

---

[41]http://www.inf.unisi.ch/past_events.php?month_from=07&year_from=2008&month_to=07&year_to=2008&id=106
[42]http://conferences.computer.org/compsac/2008/workshops/QACOS2008.html
[43]https://penta.debconf.org/dc8_schedule/events/251.en.html
[44]https://penta.debconf.org/dc8_schedule/events/251.en.html
[45]http://www.hotswup.org/
[46]http://www.opensourceworldconference.com/
[47]http://wiki.debian.org/DebianQAExtremadura2008

A.2 Edge-IT (EDG)

Edge-IT, together with its parent company Mandriva, prepared and launched the French press release announcing the Mancoosi project. It had an important impact with many quotation of Mancoosi in a lot of media, especially online (see the Mancoosi in the Press section).

Edge-IT and Mandriva have also been in charge of setting up the wiki infrastructure for Mancoosi.

From January 29 to January 31, 2008, Solutions Linux took place in Paris. Mancoosi was presented on the premises of the parent company of Edge-IT, Mandriva.

A.3 Università Degli Studi dell'Aquila (UDA)

As leaders of Workpackage 2 (Models for the description of software artifacts and the upgradeability process), members of Università Degli Studi dell'Aquila took part in dissemination activities during the first year of the project, participating to MODELS 2008 (Antonio Cichetti and Alfonso Pierantonio), EDOC 2008 (Davide Di Ruscio), and MoDSE 2008 (Antonio Cichetti and Romina Eramo) to present articles (see papers listed in the Mancoosi Conferences and Publications section).

Furthermore, members of UDA attended international seminars related to the thematic of Mancoosi.

Alfonso Pierantonio attended the Schloss Dagstuhl, Perspectives Workshop: Model Engineering of Complex Systems (MECS)[48], on August 10-13, 2008 in Germany, where he presented the Mancoosi project.

Alfonso Pierantonio and Davide Di Ruscio also presented Mancoosi at GRACE International Meeting on Bidirectional Transformations[49], on December 15-18, 2008 at the Shonan Village Center, Japan.

A.4 INESC-ID (INI)

Members of INESC-ID have been involved in the following dissemination activities.

A presentation of the project appeared in the INESC-ID newsletter n.2/2008[50].

Josep Argelich presented his research work related to the Mancoosi project at the INESC-ID SAT Group Seminar, on October 21, 2008. Vasco Manquinho also presented his work in the same forum on November 10, 2008. While Vasco's presentation focused on the use of Pseudo-Boolean Optimization (PBO), Josep's presentation focused on the use of Maximum Satisfiability (Max-SAT).

Josep Argelich presented a paper at the 15th RCRA workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion, which took place on December 12-13, 2008, and was hosted at the University of Udine, Italy. This work, co-authored with Inês Lynce, studies the CNF instances obtained from encoding the installability problem into SAT and Max-SAT. This study is a first step towards the study of CNF instances encoding the

---

[48]http://www.dagstuhl.de/de/programm/kalender/semhp/?semnr=08331
[49]http://grace-center.jp/en/event/node/17
[50]http://www.inesc-id.pt/ficheiros/noticiasimagens/83.pdf

upgradeability problem. This research is part of the European project Mancoosi. The paper and slides are available on the Mancoosi wiki[51].

In addition, Josep Argelich, Alba Cabiscol, Inês Lynce and Felip Manyà submitted a paper to the 39th International Symposium on Multiple-Valued Logics, to be held in Japan in May 2009. This paper is currently available as an INESC-ID technical report. This work presents new original encodings, called regular encodings, that map Max-CSP instances into Partial Max-SAT instances. It will be extended in the near future in order to map Max-CSP instances from the Mancoosi project into Partial Max-SAT instances.

A.5   Caixa Mágica Software (CXA)

As leaders of Workpackage 3 on Transactional Upgrades, members of Caixa Mágica took part in the dissemination activities listed below.

A presentation appeared on the Caixa Mágica Software web site on March 17, 2008, with a link to the Portuguese press release[52].

Paulo Trezentos gave a presentation of projects in which Caixa Mágica is involved, including Mancoosi, at the Linux 2008 – VI Encontro de Tecnologias Abertas event, hosted by Caixa Mágica and Sybase on April 15, 2008 in Lisbon, Portugal. Around seven hundred Portuguese Linux users and clients attended this event.

Paulo Trezentos attended FISL 2008 on April 18, 2008 in Porto Alegre, Rio Grande do Sul, Brazil. There he gave a talk about an article on Package Installation with some slides introducing Mancoosi. Inês Lynce and Arlindo Oliveira from INESC-ID are co-authors of the article.

Paulo Trezentos, together with Stefano Zacchiroli from Université Paris Diderot, attended the 1st ACM workshop on Hot Topics in Software Upgrade (HotSWUp'08) on October 20, 2008 in Nashville, Tennessee, USA (see the Université Paris Diderot section above).

A.6   Université de Nice Sophia Antipolis (UNSA)

Though mainly involved in Workpackage 4 (Study and development of specialized upgradeability solvers), which will be more active from the second year of the project, members of Université de Nice Sophia Antipolis have already been involved in dissemination activities for the Mancoosi project.

Michel Rueher presented the Mancoosi project at the Master of Computer Sciences of the École polytechnique of the University of Nice. The students are advanced students in computer sciences who can be highly interested by such a project.

Michel Rueher also took part to ACM SAC 2008[53] in March 2008, CPAIOR 2008[54] in May 2008 and CP 2008[55] in September 2008. These conferences are key conferences for the advances in algorithms which can handle the upgradeability problem.

---

[51]http://mancoosi.xwiki.com/xwiki/
[52]http://www.caixamagica.pt/pag/f_notc00.php?id=200
[53]http://www.acm.org/conferences/sac/sac2008/
[54]http://contraintes.inria.fr/CPAIOR08/
[55]http://www.cs.mu.oz.au/cp2008/

A.7   Tel Aviv University (TAU)

Mainly active in Workpackages 2 and 3, members of Tel Aviv University have already been involved in dissemination activities related to Mancoosi as described below.

Rubi Boim presented his research regarding the Mancoosi project at Tel-Aviv University Seminar on Managing Information on the Web, on March 9, 2008.

Rubi Boim and Tova Milo attended the 2008 ACM Special Interest Group on Management Of Data (SIGMOD' 08), on June 9-12, 2008, in Vancouver, Canada. There they gave a presentation regarding a demo paper (published at the conference) discussing a new innovating method for finding related content within a distributed Topic-Based Publish-Subscribe system. An example can be enhancing the users experience in a software notification system. This work is part of the Mancoosi project research. The paper and slides are available on the wiki.

Itay Dar presented his research in relation to the Mancoosi project at the Tel-Aviv University Seminar on Managing Information on the Web, on July 6, 2008.

In 2009, Itay Dar will attend the 12th international conference on Extending Database Technology, EDBT'09, on March 23-26, in Saint-Petersburg, Russia. There he will present his published paper (co-authored with Tova Milo and Elad Verbin) regarding optimized union of non-disjoint distributed data sets. This work is part of the Mancoosi project research. The paper and slides are available on the wiki.

A.8   ILOG (ILG)

Though mostly involved in Workpackage 4, which will be mainly active during the second and third period of the project, the members of Ilog have already been active in dissemination activities related to Mancoosi.

Articles on Ilog and their participation to the project have appeared in the professional press (see the Mancoosi in the Press section).

Furthermore, Olivier Lhomme participated to a DIMACS/LAMSADE Workshop on Algorithmic Decision Theory, on October 29-31, 2008 at the Université Paris Dauphine, France, that is of high interested for the research carried on within the scope of Mancoosi.

A.9   Université Catholique de Louvain (UCL)

During the first period, members of Université Catholique de Louvain took part in several dissemination activities related to their work within Workpackage 4. First, they presented the Mancoosi project to researchers within the Computer Science Department of the University.

Boris Mejias attended FOSDEM 2008 (Free and Open Source Software Developers' European Meeting) in February 2008, in Brussels, Belgium, where he spoke to potential researchers about the project.

In September 2008, Gustavo Gutierrez and Peter Van Roy contacted Christian Schulte, the main developer of the Gecode constraint library, to arrange for adding a graph constraints package developed by Mancoosi. Gecode is open source and widely used in industry and academia.

In January 2009, Peter Van Roy presented the Mancoosi project at IRCAM (Institut de Recherche et Coordination Acoustique/Musique) in Paris, France. IRCAM does research on

computer music. They are an open-source developer and use constraints in their OpenMusic software.

A.10   Pixart (PXT)

Once admitted into the Mancoosi consortium after the negotiation phase with the Commission, Pixart communicated on the Mancoosi project via a series of press releases in Argentina that were published in the local media (see Mancoosi in the Press section).