# Enhancing NASA Fiche Records with Links to Online Content

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Presentation given at the Fall 2007 Depository Library Conference, 17 October 2007, Arlington, VA

#### Abstract

It's painful to see thousands of fiche records in the OPAC that you know full well are online, but the records do not so indicate. This talk shows how the University of Denver enhanced NASA fiche records by adding 24,000 links to NASA Technical Report Server content in relatively little time. Instructions will be provided for libraries wishing to do provide similar access.

#### University of Denver Transition

- June, 2007 74% Selective Depository
- Oct., 2007 50% Selective.
- We deselected all but 10 items with tangible distribution
- We subscribed to Marcive's *Documents Without Shelves* for 100% of electronic items.
- We are now a fully electronic depository.

#### NASA Disconnect

- We had over 24,000 records for microfiche with no online links
- Yet, most of these links were accessible in NTRS

#### Desired Result: URLs in Records with Online Content

=LDR 01703nam 22003857a 4500 =001 39777137 =003 OCoLC =008 980831s1996\\\\dcu\\\\b\\\\f000\0\eng\d =035 \\\$a(GPO)97100389 **URL** Tracking URI to NTRS =037 \\\$a19970009364\$bNASA =040 \\\$aGPO\$cGPO\$dDLC\$dMvI\$dMvI Prefix =049 \\\$aDVP2 =074 \\\$a0830-D (MF) =086\_0\\$aNAS\_1\_15:112038 =099 \7\$aNAS 1.15:112038 =100 1\\$aSaphir, William. =245 14\$aThe NAS Parallel Benchmarks 2.1 results\$h[microfor\_1] /\$cWilliam Saphir, Alex Woo, and Maurice, Yarrow. =260 \\\\$a[Washington, D.C. :\$bNational Aeronautics and Sprice Administration ;\$aSpringfield, Va. : \$bNational Technical Information Service, distributor.\$c1996 =300 \\\$a1 v. =500 \\\$aShipping list no.: 98-0810-M. =533 \\\$aMicrofiche.\$b[Washington, D.C. :\$cNational A ronautics and Space Administration,\$d1997 microfiche.\$f(NASA-TM; 112038). =650 \7\$aComputer systems performance.\$2nasat =650 \7\$aCrav computers.\$2nasat. =650 \7\$aParallel computers.\$2nasat. =650 \7\$aParallel processing (Computers)\$2nasa =650 \7\$aSupercomputers.\$2nasat. =700 1\\$aWoo, Alex. =700 1\\$aYarrow. Maurice. =710 1\\$aUnited States.\$bNational Aeronau cs and Space Administration. 12038 =830 \0\$aNASA technical memorandum =856 4 [\$uhttp://library.du.edu/findit/peak/redirect.cfm?LinkURL=http://hdl.handle.net/2060/19970009364 \$zAccess online version =907 \\\$a,b25255678\$b05-03-07\$c01-21-00 =998 \\\$ain\$apm\$b01-21-00\$cm\$da\$e-\$feng\$gdcu\$h4\$i1 =945 \\\$g1\$h0\$j0\$k0\$lpmdfc\$o-\$p{dollar}0.00\$q \$r-\$s-\$t0\$u0\$v0\$x0\$y.i25700376\$z01-21-00 =945 \\\$q1\$h0\$j0\$k0\$linter\$o-\$p{dollar}0.00\$q \$r \$sj\$t0\$u0\$v0\$w0\$x0\$y.i38098817\$z05-03-07

## Steps Involved

- Isolate records needing URLs in ILS
- Export relevant fields (control no., OCLC no., SuDocs no., title 245\$a)
- Import into Access
- Make modifications to data in Access (remove colon from SuDocs no.)
- Download MARC records from ILS (in MARC communication format)
- Convert from MARC communication format to MarcEdit format with MarkEdit.
- Lookup URLs using link from Access to NTRS
- Write URLs to MARC records using NoteTab Pro
- Import records back into ILS

#### **Tools Required**

- Microsoft Access
- MarcEdit free download: http://oregonstate.edu/~reeset/marcedit/
- Notetab free download: http://www.notetab.com/

#### Fields in the Access Database

	ID:	SuDocs:	Title:	SuDocsOut:	NTRS:	Peak:	URL:	URLout:	OCLC:
►	1	NAS 1.15:101888	Space Shuttle Mission STS-34 pre	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	/hdl.handle.net/2060/19900001666	http://hdl.handle.net	23161621
	2	NAS 1.15:88232	Losses in fountain-effect pumps	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	/hdl.handle.net/2060/19870002532	http://hdl.handle.net	23174687
	3	NAS 1.15:100418	The NASA integrated test facility a	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19880011793	http://hdl.handle.net	23175212
	4	NAS 1.26:4352	Description and evaluation of an int	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19910011842	http://hdl.handle.net	31861416
	5	NAS 1.15:103805	IMPACan Integrated Methodology	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19910010809	http://hdl.handle.net	31875089
	6	NAS 1 206579	Design aptoredictions for a high-a	http://strs.nasa.	http://strs.nas	http://estalog.du	'hdl.handle.net/2060/19990049398	http://hdl.bendle.net	42623679
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	8	NAS 1.15:208541	Debris ice TPS assessment and in	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19990052656	http://hdl.handle.net	42634028
	9	NAS 1.15:208763	The development of the CONDUIT :	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19990051006	http://hdl.handle.net	42634030
	10	NAS 1.15:208767	The thin oil film equation	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19990047906	http://hdl.handle.net	42634006
	11	NAS 1.15:208829	Development and performance of the	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19990049233	http://hdl.handle.net	42634023
	12	NAS 1.15:208835	Rare earth doped yttrium aluminum	http://ntrs.nasa.	http://ntrs.nas	http://catalog.du	'hdl.handle.net/2060/19990047775	http://hdl.handle.net	42634044

- 1. Access ID number (for database integrity)
- 2. SuDocs number
- 3. Title (subfield \$a only)
- 4. Link to NTRS by SuDocs number
- 5. Link to NTRS by title
- 6. Link to University of Denver local catalog record by SuDocs number
- 7. URL to handle or to search result screen with multiple docs. Column 7 is where the target URL is pasted; Column 8 tests this URL.
- 8. URL to NTRS for testing purposes
- 9. OCLC number from MARC record

#### **Discovering Online Content**

	ID:		SuDocs:	Title:	SuE	DocsOut:	NTRS:	Peak:	U	IRL:	URLout:	OCLC:
►		NAS	1.15:101888	Space Shuttle Mission STS-34 pre	http:/	/ntrs.nasa.	http://ntrs.nas	http://catalog.c	hdl.handle.net/2	2060/19900001666	http://hdl.handle.net	23161621
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		NAS	1.15:100418	The NASA integrated test facility a	http:	ntrs.nasa.	http://ntrs.nas	http://catalog.c	//hdl.handle.net/	2060/19880011793	http://hdl.handle.net	23175212
	4	NAS	1.26:4352	Description and evaluation of an int	http:	ntrs.nasa.	http://ntrs.nas	http://catalog.c	//hdl.handle.net/	2060/19910011842	http://hdl.handle.net	31861416
		NAS	1.15:103805	IMPAC an Integrated Methodology	http:	ntrs.nasa.	http://ntrs.nas	http://catalog.c	//hdl.handle.net/	2060/19910010809	http://hdl.handle.net	31875089
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This is a "handle" URL

http://hdl.handle.net/2060/19900001666

#### When there are Several Parts

Author	Lalli, Vincent R.					
Title	Software design improvements. Part 1 Packard, Tom Ziemianski.	-2 [microform] / Vincent	R. Lalli, Michael H.			
Publ Info	[Washington, D.C. : National Aeronautics National Technical Information Service, di	and Space Administration	; Springfield, Va. :			
The links below	are for electronic versions of this public Access online version	Search NTRS	Visit the STI Program Web Site			
LOCAT <u>Microfiche Docs</u> Internet	ION CALL # <u>NAS 1.15:107402/PT.1-2</u> <u>NAS 1.15:107402/PT.1-2</u>	FERM SEARCH OPTIONS Select Search Field *	SEARCH NTRS Search Criteria: • Search Field: All > Results : All > Search Term: "Software design improvements." [X]			
Description Series	2 v. IEEE ; 155NO897-5000, Part 1. NASA technical memorandum ; 107402, P NASA technical memorandum : 107402.	All of the words	Sort results by: NASA Center   Date Added to NTRS   Publication Year There are a total of 2 record(s) matching your query. Sorted by: Date Added To NTRS in Descending order			
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		marks (") to search for exact bhrases, ie: "space shuttle". NOTE: Commas and dashes are removed from search term by search engine. Select Reset Search button to start a new search. See Help for more tips.	NASA Center: Glenn Research Center Publication Year: 1997 Added to NTRS: 2005-08-25 Accession Number: 97N18301; Document ID: 19970015395; Report Number: E-10609-Pt-1, IEEE-155N0897-5000-Pt-1, NAS 1.15107402-Pt-1, NASA-TM-107402-Pt-1			
			Author(s): Lalli, Vincent R.; Packard, Michael H.; Ziemianski, Tom Abstract: 'If it is not safe, say so' has become our motto. This paper goes over methods that have been used by NASA to make <b>software design improvements</b> by focusing on software quality and the NASA Center: Glenn Research Center Publication Year: 1997 Added to NTRS: 2005-08-25 Accession Number: 97N17151; Document ID: 19970013223; Report Number: E-10635, IEEE-155N0897-5000, NAS 1.15107402-Pt2, NASA-TM107402-Pt2			

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#### **Before Running Macro**

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#### MARC Records from ILS

#### OCLC No. & URLs from Access

## After Running Macro

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Note: MarcEdit can be used to reorder MARC fields

proper order

#### Use MarcEdit to Re-Create MARC File with URLs

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=830 \0\$aNASA technical memorandum ;\$v112038.	
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#### After Running MarcEdit....

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025630000090041050000340041953301280045365000240058165000410060565000310064665000250067770000210070271000670072383000410079085601210083190700350 0952945007800987945007801065998004601143D39777141D0CoLCD980831s1996 dcu b f000 0 eng dD Da(GPO)97100390D Da19970009342DbNASAD DaGPODCGPODdDLCDdMvID DaDVP2D Da0830-D (MF)D0 DaNAS 1.15:112037D 7DaNAS 1.15:112037D04DaThe quest for PiDh[microform] /DcDavid H. Bailey ... [et al.]. Da[Washington, D.C. : DbNational Aeronautics and Space Administration ; DaSpringfield, Va. : DbNational Technical Information Service, distributor, Oc199610 Oal v.O OaShipping list no.: 98-0810-M.O OaMicrofiche.Ob(Washington, D.C. : OcNational Aeronautics and Space Administration, Dd1997]De1 microfiche.Df(NASA-TM ; 112037).D 7DaAlgorithms.D2nasat.D 7DaApplications of mathematics.D2nasat.D 7DaComputer programs.D2nasat.D 7DaConvergence.D2nasat.D1 DaBailey, David H.D1 DaUnited States.DbNational Aeronautics and Space Administration.D 0DaNASA technical memorandum :Dv112037.D41Duhttp://librarv.du.edu/findit/peak/redirect.cfm?LinkURL=http://hdl.handle.net/2060/19970009342DzAccess online versionD Da.b2525568xDb05-03-07Dc01-21-00D Dg1Dh0Dj0Dk0DlinterDo-Dp\$0.00Dg Dr DsjDt0Du0Dv0Dv0Dv0Dv.j38098829Dz05-03-07D Dg1Dh0Dj0Dk0DlpmdfcDo-Dp\$0.00Dg Dr-Ds-Dt0Du0Dv0Dv0Dv0Dv0Dv0200v.125700388Dz01-21-00D DainDapmDb01-21-00DcmDdaDe-DfengDgdcuDh4Di1DD01892nam 22004097a 02072600154003813000090053550000340054453301280057865000330070665000360073965000420077565000310081765000400084865000440088865000450093270000190 0977700002000996710006701016830004101083856012101124907003501245945007801280945007801358998004601436□39777151□0CoLC□980831s1996 h den f000 0 eng dD Da (GPO) 97100391D Da 19970009334DbNASAD Da GPODCGPODDLCDdMvIDdMvID Da DVP2D Da 0830-D (MF) D0 DaNAS 1.15:112034D 7DaNAS 1.15:11203401 DaSohn, Andrew.010DaImpact of load balancing on unstructured adaptive grid computations for distributed-memory multiprocessorsOh(microform) /OcAndrew Sohn, Rupak Biswas, and Horst D. Simon. O Da[Washington, D.C. :ObNational Aeronautics and Space Administration ; DaSpringfield, Va. : DNational Technical Information Service, distributor, Dc1996] Da1 v.D DaShipping list no.: 98-0810-M.D □aMicrofiche.□b[Washington, D.C. :□cNational Aeronautics and Space Administration,□d1997]□e1 microfiche.□f(NASA-TM ; 112034).□ 7□aComputational grids. D2nasat. 70aDistributed processing. D2nasat. 70aGrid generation (Mathematics) D2nasat. 70aMemory (Computers) D2nasat. 70aMultiprocessing (Computers) D2nasat. D7DaParallel processing (Computers) D2nasat. D7DaUnstructured grids (Mathematics) D2nasat. D1 DaBiswas, Rupak. D1 DaSimon, Horst D.01 OaUnited States. ObNational Aeronautics and Space Administration. O ODaNASA technical memorandum

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