

Publications on the DBBC

This collection of files is from Gino Tuccari, March 2019, attached to this page and indexed in the tables below.

Journal Paper:

The definitive DBBC3 journal publication is in preparation 2023 - see the manuscript page [here](#)

Conference Papers:

Date	Authors	Comments	Document
2003	Tuccari	"Development of a Digital Base Band Converter (DBBC): Basic Elements and Preliminary Results" in New Technologies in VLBI, ASP Conf Ser. 306, 177	Tuccari_146.pdf
2004	Tuccari	"DBBC - A Wide Band Digital Baseband Converter" IVS General Meeting 2004	Tuccari_128.pdf
2004	Tuccari, Whitney, Hinterreger et al.	"Backend Systems - Perspectives in 2010" IVS General Meeting 2004	Tuccari_129.pdf
2006	Tuccari, Buttaccio, Nicotra et al.	"DBBC - A Flexible Platform for VLBI Data Process" IVS General Meeting 2006	Tuccari_171.pdf
2007?	Tuccari	"VLBI Backend Systems - Perspectives in 2012"	Tuccari_173.pdf
2007	Tuccari, Buttaccio, Nicotra et al.	"DBBC - A Flexible Environment for VLBI and Space Research: Digital Receiver and Back-End Systems" Proc 18th EVGA April 2007 Vienna	Tuccari_176bis.pdf
2008	Tuccari, Alef, Bertarini et al.	"DBBC Development Status" Proc 5th IVS General Meeting	Tuccari_176bis.pdf
2008	Tuccari	"THE DBBC PROJECT - A FLEXIBLE ENVIRONMENT FOR VLBI AND SPACE RESEARCH: DIGITAL RECEIVER AND BACK-END SYSTEMS" The 59th International Astronautical Congress, Glasgow, UK	Tuccari_180.pdf
2010	Tuccari, Alef, Bertarini et al.	"DBBC VLBI2010" Proc IVS 2010 General Meeting	Tuccari_184.pdf
2010	Tuccari, Alef, Bertarini et al.	"DBBC2 Backend: Status and Development Plan" Proc IVS 2010 General Meeting	Tuccari_185.pdf

2012	Tuccari, Bezrukovs, & Nechaeva	"DIGITAL BASE BAND CONVERTER AS RADAR VLBI BACKEND" JOURNAL OF PHYSICS AND TECHNICAL SCIENCES 2012, N 6 (II)	v10047-012-0039-8.pdf
2012	Tuccari	"DBBC3 - A full digital implementation of the VLBI2010 backend" Proc IVS 2012 General Meeting	Tuccari_2012.pdf
2012	Tuccari, Buttaccio, Alef et al.	"DBBC3: VLBI at 32 Gbits per second" 11th EVN Symposium, 2012 Bordeaux, PoS	DBBC3_finale.pdf
2013	Tuccari, Alef, Wunderlich et al.	"DBBC3 - Full digital EVN and VLBI2010 Backend, Project Progress" Proc 21st EVGA Meeting, Espoo Finland, 2013	EVGA_2013.pdf
2014	Tuccari, Alef, Buttaccio et al.	"DBBC3 - EVN and VGOS All-Inclusive VLBI System" Proc IVS 2014 General Meeting	Tuccari_2014.pdf
2014	Tuccari, Buttaccio, Platania et al.	"DBBC3 Development" 12th EVN Symposium, 2014 Cagliari, PoS	DBBC3_Development_.pdf
2018	Tuccari, Alef, Dornbusch et al.	"New observing modes for the DBBC3" Proc IVS 2018 General Meeting, Longyearbyen Norway	Tuccari_2018.pdf

Memos:

Date	Authors	Comments	Document
2004	Tuccari, Whitney, Hinterreger et al.	"IVS WG3 Report on the Backend System" IVS Memo 2006-003v01	Tuccari_123.pdf
2004	Tuccari	"DBBC Wide Band Digital Baseband Converter Overview" EVN Doc n. 115/2004	Tuccari_133.pdf
2004	Tuccari	"DBBC Wide Band Digital Baseband Converter CoreModule Board" EVN Doc n. 118/2004	Tuccari_134.pdf
2004	Tuccari	"DBBC Wide Band Digital Baseband Converter System AD Environment" EVN Doc n. 116/2004	Tuccari_135.pdf
2004	Tuccari	"DBBC Wide Band Digital Baseband Converter System Demultiplexer" EVN Doc n. 117/2004	Tuccari_132.pdf

2009	Comoretto, Russo, & Tuccari	"A 16 channel FFT multiplexer" Arcetri Technical Report N° 1/2009	Tuccari_183.pdf
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Talks:

Date	Authors	Comments	Document
2009?	Tuccari	"FFT Scanning Spectrometer for the DBBC2"	FFT_Scanning_Spectrometer.pdf
2009?	Tuccari, Wenren et al.	"An Italy-China Collaboration for the miniDBBC development"	Tuccari_142.pdf
2010?	Tuccari	"DBBC2010"	DBBC2010.pdf
2011	Tuccari	"DBBC3 Multigigabit Backend" 20th EVGA Meeting 2011 Bonn	DBBC3_EVGA2011.pdf
2011	Tuccari	"DBBC2 Architecture" TOW May 2011	Tuccari.Sem.pdf
2012	Tuccari	"DBBC - A full digital implementation of the VLBI2010 backend" 7th IVS General Meeting, Madrid 2012	DBBC3_IVSGM2012.pdf
2012	Tuccari	"DBBC" EVN TOG Workshop, Onsala, 2012	DBBC2_EVN_TOG_Workshop_Onsala_2012.pdf
2012	Tuccari	"Digital Backends" IVS TechSpec Workshop, Wettzell March 2012	DIGITAL_BACKENDS_finale.pdf
2012	Tuccari	"Digital Backends" IVS TechSpec Workshop, Wettzell March 2012	DIGITAL_BACKENDS_.pdf
2012?	Tuccari	"DBBC Firmware for RadarVLBI"	DBBC_Firmware_for_RadarVLBI.pdf
2012?	Tuccari	"FILA10G – Double Port 10G VLBI-Ethernet Interface How to use it"	FILA10G_Wz.pdf
2012	Tuccari, Nechaeva, & Bezrukovs	"DBBC as Radar VLBI Backend" VIRAC2012, Ventspils	VL.Bezrukovs_talk_DBBC.pdf
2014	Tuccari, Alef,	"DBBC3 – EVN and VGOS All-Inclusive VLBI System" 8th IVS General Meeting, Shanghai	DBBC3_%25E2%2580%2593_EVN_and_VGOS_All-Inclusive_VLBI_System.pdf

	Buttaccio et al.		
2013	Tuccari, Alef, Wunderlich et al.	"DBBC3 - Full digital EVN and VLBI2010 Backend, Project Progress" 21st EVGA Meeting, Espoo Finland, March 2013	DBBC3_EVGA_Espoo_2013.pdf
2015?	Tuccari, Alef, Dornbusch et al.	"DBBC3 the new wide-band backend for VLBI" Poster	DBBC3-Granada.pdf
2015	Tuccari, Alef, Bertarini et al.	"DBBC3L - A full compliant VGOS backend" 22nd EVGA Meeting, Sao Miguel, Azores	DBBC3L - A_full_compliant_VGOS_backend_EVGA2015.pdf
2015	Tuccari, Alef, Bertarini et al.	"DBBC Status" EVN_TOG Meeting, Robledo, June 2015	TOG15_DBBC3.pdf
2016	Tuccari	"DBBC - A VLBI backend family" Workshop on Italian VLBI and AVN, Bologna October 2016	DBBC - A family of VLBI backends 2016.pdf
2016	Tuccari	"DBBC" EVN-TOG 2016	DBBC - TOG.pdf
2016	Tuccari, Alef, Buttaccio et al.	"DBBC3: next generation versatile VLBI backend" Poster at 13th EVN Symposium, St. Petersburg	DBBC3-EVNSymp16.pdf
2016	Tuccari	"Digital backends DBBC and Fila10G" 2nd IVS Training School on VLBI for Geodesy and Astrometry, Hartebeesthoek Radio Astronomy (South Africa), 9/3/2016	L03-Tuccari_Digital_backends.pdf
2019	Tuccari	"DBBC3 status and deployment" EVN-TOG March 2019?	dbbc3_status_and_deployment_tog_190318-1.pdf

DBBC3 Tests for EHT Acceptance:

Date	Authors	Comments	Document
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2018	Roy et al.	"DBBC3 acceptance test report for EHT"	DBBC3-TestReport-RoyEtAl-2018sep07.pdf DBBC3-testing.docx
2018	Roy et al.	"DBBC3 acceptance test report for EHT - presentation"	DBBC3Testing-RoyEtAl.pptx DBBC3-TestReport-RoyEtAl-2018sep10-Presentation.pdf
2018	Roy et al.	"DBBC3 acceptance test report for EHT continued: response to ORAs"	DBBC3-TestReport-RoyEtAl-2018dec21.pdf DBBC3-testing-incremental.docx
2018	Roy et al.	"DBBC3 acceptance test report for EHT continued - presentation response to ORAs"	DBBC3Testing-Continued-RoyEtAl-2018nov06.pdf
2018	Dornbusch	"DBBC3 acceptance test presentation for EHT"	Dornbusch_DBBC3_Digital_Processing_and_Calibration_110918.pdf
2018	Tuccari et al.	"DBBC3 Status and deployment - presentation for TOG"	DBBC3StatusAndDeployment_TOG_190318.pdf