

Proposal	Summary	Status	LCS reg'd?	LCS Number	Affects VHPI	Comment
FT01	Use clauses: explicit declaration hides implicit homograph	FT Reviewed Yes		LCS-2005-007	No	
FT02	Add unary reduction logical operators	FT Reviewed Yes		LCS-2005-014	No	
FT03	Array/scalar logical operators	FT Reviewed Yes		LCS-2005-014	No	
FT04	Maximum and minimum operators	FT Reviewed Yes		LCS-2005-013	No	
FT05A	to_string, to_hstring, to_ostring, to_dstring	To review			No	Needs code review
FT07	Hierarchical reference/signal spy	To do			??	Jim and PA to look at this. PA to check for MTI donation letter.
FT08	hwrite, owrite, dwrite, hread, oread, dread	To review			No	Needs code review
FT09	Sized bit-string literals	FT Reviewed Yes		LCS-2005-019	No	Check for updates and revise LCS if necessary
FT10A	Condition expressions	FT Reviewed Yes		LCS-2005-020	Yes	
FT10B	Conditional and selected sequential assignments	FT Reviewed Yes		LCS-2005-027	Yes	
FT11	Signal expressions in port maps	To do			Yes	John to write up
FT12	Read out ports and parameters	FT Reviewed Yes		LCS-2005-025	Yes	
FT13	Stop and finish procedures	FT Reviewed Yes		LCS-2005-016	No	
FT14	Unconstrained subelements of composite types	FT Reviewed Yes		LCS-2005-028	Yes	
FT15	Slicing of multidimensional and nested arrays	Deferred Yes			Yes	Need to do this to ensure integration with FT14
FT16	Context units	To review Yes		LCS-2005-046	Yes	Pending FT review.
FT18	Condition operator and bit/boolean logical operators	FT Reviewed Yes		LCS-2005-022 (Part 1)/ LCS-2005-014 (Part 2)	Yes	
FT19	Process(all)	To review			Yes	John to address signals read by subprograms. Simplified form of attribute spec.
FT20	Slices in aggregates	To do			Yes	
FT21	Integrate 1164, 1076.2, 1076.3	FT Reviewed Yes		LCS-2005-012	No	
FT22	Locally static composite expressions	FT Reviewed Yes		LCS-2005-026	No	Subsequently revised
FT23	Locally static operators for library-ieee packages	FT Reviewed Yes		LCS-2005-026	No	Check for updates and revise LCS if necessary
FT24	Don't care in case statement choices	To do			Yes	
FT25	Remove restrictions on static subtype for case expression	To do	Yes	LCS-2005-026	No	
FT26	Relax restrictions on return values from functions	FT Reviewed Yes		LCS-2005-018	No	
FT27	Optional architectures, non-passive processes in entities	FT Reviewed Yes		LCS-2005-023	Yes	
FT28	Sign/msb assumed on the left for sla	To do			??	
FT29	Add library ieee; use std.textio.all; to implicit context	To do			??	
FT30	Updates to package standard	To do			??	
FT31	File flush operation	FT Reviewed Yes		LCS-2005-043	No	
Enh-Generics	Enhanced generics	FT Reviewed Yes		LCS-2005-017	Yes	
PSL	Incorporate PSL	FT Reviewed Yes			Yes	
TBV2	Associative arrays	To do			??	
IP-Protection	Encrypted regions	To review			Yes	

IR Number	Status	Resolution	Summary	LCS req'd?	LCS Number	Responsible	Affects VHPI	Comment
2028	Analyzed		Clarify simulation cycle. Note: waiting for VHPI input	No	-	Peter	Yes	Deal with this as part of WG review of VHPI changes
2038	Submitted		Minor semantic errors				No	
2043	Submitted		Numeric VALUE attribute parameter can't have sign			Deepak	No	
2050	Analyzed		Definition of SLast_Value was apparently broken in 1993	Yes	LCS-2005-044	Peter Larry	No	
2054	Submitted		Individ. assoc. rules for array format are not valid				No	
2062	Submitted		Range staticness				No	
2064	Analyzed		Type conversion of unconstrained output in a port map				No	
2065	Submitted		Aggregates				No	
2066	Submitted		Multidimensional array in IEEE Std 1076.6-2004				No	
2067	Submitted		Enhancement: Logical link interface abstraction				No	
1044	Resolved	ISAC-Approved	Definition of HIGH and LOW in a null range	Yes	LCS-2005-001		No	
2000	Resolved	ISAC-Approved	Where may/must deferred constant declaration appear	Yes	LCS-2005-010	Chuck	No	
2001	Resolved	ISAC-Approved	Resize not working in numeric_std.vhd (1076.3)	No		Peter	No	
2002	Resolved	ISAC-Approved	Resize(R,2) function in numeric_std.vhd does improper array length check	No		Peter	No	
2003	Resolved	Forwarded	Specification of multi-cycle paths	No			No	
2004	Resolved	ISAC-Approved	Definition of SLA doesn't make sense	No		Chuck	No	
2005	Resolved	Duplicate	sla operator behavior does not match typical hardware behavior				-	
2006	Resolved	Forwarded	else in "if generate"?			Peter	No	Already on VHDL-200x M&P list
2007	Resolved	Forwarded	VHDL needs to be enhanced to allow the modeling of switches.	No		Peter	No	Already on VHDL-200x M&P list
2008	Resolved	ISAC-Approved	Source value of undriven, non-sourced INOUT, OUT or BUFFER port	Yes	LCS-2005-011	Peter	No	
2009	Resolved	ISAC-Approved	New std package, containing compiler and target identification information	No		Peter	No	Forward to VHDL-200x Environment
2010	Resolved	ISAC-Approved	The description of type/subtype relationship could be better	No		Peter	No	
2011	Resolved	ISAC-Approved	A package body should be able to consist of several files	No		Peter	No	Forward to VHDL-200x M&P
2012	Resolved	ISAC-Approved	VHDL lacks inherent statements to describe the most basic hardware design equations	No		Peter	No	Forward to VHDL-200x M&P
2013	Resolved	ISAC-Approved	Exact subtype "matching" for port associations	Yes	LCS-2005-036	Chuck	No	
2014	Resolved	ISAC-Approved	Allowance of the keyword "all" in place of a sensitivity list is desirable	No		Peter	No	
2015	Resolved	ISAC-Approved	Generics should be able to incorporate other generics	No		Peter	No	Deal with in FT19
2016	Resolved	Duplicate	Allowance of the keyword "all" in place of a sensitivity list is desirable	No			No	Duplicates IR2014
2017	Resolved	Duplicate	Generics should be able to incorporate other generics	No			No	Duplicates IR2015
2018	Resolved	Duplicate	Variable IN parameter should be no different than constant	No		Peter	No	
2019	Resolved	ISAC-Approved	Reading outputs from within architecture	No		Peter	No	Deal with in FT12
2020	Resolved	ISAC-Approved	Keyword REPORT is over-used	No		Peter	No	
2021	Resolved	Forwarded	Dynamic hardware construct	No			No	Forward to VHDL-200x SC
2022	Resolved	ISAC-Approved	Elements of constant composite to be locally static	No		Peter	No	Deal with in FT-22
2023	Resolved	ISAC-Approved	Add predefined array types for integer, boolean, real and time	Yes	LCS-2005-029	Peter	No	
2024	Resolved	Forwarded	VHDL needs encryption support	No			No	Deal with in IP proposal
2025	Resolved	ISAC-Approved	Generate for sequential code	No		Peter	No	Forward to VHDL-200x SC
2026	Resolved	Forwarded	Upward propagating parameters	No			No	Already on VHDL-200x M&P list
2027	Resolved	Forwarded	When loop index is static, drivers are created for each element of array	Yes	LCS-2005-009		No	
2029	Resolved	ISAC-Approved	Non-relevant words and paragraph.	Yes			No	
2030	Resolved	ISAC-Approved	What signature does a method have	Yes	LCS-2005-002		No	
2031	Resolved	ISAC-Approved	mod function needed for TIME	Yes	LCS-2005-003		No	
2032	Resolved	ISAC-Approved	Function "now" is not pure	No			No	
2033	Resolved	Forwarded	Incremental operator and auto subtype boundary wrap	Yes			No	
2034	Resolved	Forwarded	Introduce history attribute on signals to auto infer registers	No			No	
2035	Resolved	Forwarded	new function "stages" automates pipelining	No			No	
2036	Resolved	ISAC-Approved	protected_type_declarative_item includes subprogram_specification	Yes	LCS-2005-004		No	
2037	Resolved	ISAC-Approved	Typo wrt now in the index	Yes	LCS-2005-005		No	
2039	Resolved	ISAC-Approved	Minor typos	Yes	LCS-2005-006		No	
2040	Resolved	ISAC-Approved	Problems with OTHERS in aggregates	Yes	LCS-2005-030	Alay	No	
2041	Resolved	Forwarded	Association of members is too restricted	Yes		Chuck	No	
2042	Resolved	ISAC-Approved	Architecture as a block causes problems	No	LCS-2005-024	Peter	Yes	Requested features provided by enhanced generics
2044	Resolved	ISAC-Approved	Deprecation of linkage ports affects boundary scan description language	Yes	LCS-2005-031	Chuck	No	
2045	Resolved	ISAC-Approved	Add the ability to comment an entire block of code	Yes	LCS-2005-008	Peter	No	
2046	Resolved	Forwarded	Type independent ports and subprogram parameters	No		Chuck	No	
2047	Resolved	ISAC-Approved	Backslash in extended identifiers	Yes	LCS-2005-015	Peter	No	
2048	Resolved	ISAC-Approved	Miscellaneous errors	Yes	LCS-2005-042	Chuck	No	
2049	Resolved	ISAC-Approved	Circular definition of an event on a signal	Yes	LCS-2005-032	Alay	No	
2051	Resolved	ISAC-Approved	Path_name and instance_name do not allow for protected types	Yes	LCS-2005-037	Chuck	Yes	
2052	Resolved	ISAC-Approved	Path_name and instance_name don't deal with operator symbols	Yes	LCS-2005-038	Chuck	Yes	
2053	Resolved	ISAC-Approved	Minor typos in VHDL 2002 part 2	Yes	LCS-2005-039		No	
2055	Resolved	ISAC-Approved	Prohibition on assignment of protected types not normative	Yes	LCS-2005-033	Chuck	No	
2056	Resolved	ISAC-Approved	Can an attribute name that denotes a function be used where a name is required?	Yes	LCS-2005-034	Larry/Chuck	No	
2057	Resolved	ISAC-Approved	Access-typed parameters to predefined "=" and "!="	Yes	LCS-2005-040	Chuck	No	
2058	Resolved	ISAC-Approved	Does USE of type name make operators and literals visible?	Yes	LCS-2005-045	Chuck	No	
2059	Resolved	ISAC-Approved	Upper/lower case character mapping is not clear	Yes	LCS-2005-035	Peter	No	Forward to VHDL-200x M&P
2060	Resolved	ISAC-Approved	Include truth table for multi-input/multi-output logic.	No			No	
2061	Resolved	ISAC-Approved	Default actions on severity flags is different between simulators	Yes			No	
2063	Resolved	Forwarded	Unconstrained array formats should not get subtype from actuals	Yes	LCS-2005-041	Chuck	No	Subsumed by rewrite for unresolved subelements in FT14