Ada 2022 REFERENCE CARD		Delta	S'Delta return universal_real Input The delta of the fixed point subtype.		S'Input (Stream:access Ada.Streams.Root_Stream Type'Class) return T	
italic Ada 2022 [] Optional	{} Repeatable   Alternative Identical	Denorm	S'Denorm return Boolean True if every value is expressible in canonical form with an an exponent of T'Machine Emin.	Last	Reads and returns one value from the Stream argument.  A'Last (N) return index_type Upper bound of N-th index range of [constrained] array	
P - program unit C - component	E - entry declaration or exception T - task X - object A - discriminated type or array R - record L - label D - library declaration V - value sequence	Digits	S'Digits return universal_integer Number of digits of the decimal fixed point subtype.	Last	type. A'Last return index_type	
		Digits	S'Digits return universal_integer Number of decimal mantissa digits for floating point sub- type.	Last	Upper bound of first index range of [constrained] array type.  S'Last return T  Upper bound of the range of scalar subtype.	
ATTRIBUTES	<b>3</b>	Enum_Rep	S'Enum_Rep (X:S'Base) return universal_integer Return the number representing a given enumeration literal.	Last_Bit	B. C'Last_Bit return universal_integer Bit offset, from the start of the first of the storage elements occupied by C. of the last bit occupied by C.	
Access	P X'Access return access_type Access to subprogram or object.	Enum_Val	S'Enum_Val (X:universal_integer) return S'Base Return the enumeration literal represented by a given num- ber.	Leading_Part	S'Leading_Part (X:T;Radix_Digits:universal integer) return T	
Address	X P L'Address return System.Address Address of the first of the storage elements allocated to	Exponent	S'Exponent (X:T) return universal_integer Normalized exponent of the floating point argument.	Length	The leading part of floating point value with number of radix digits given by second argument.  A'Length (N) return universal_integer	
Adjacent	object, program unit, or label. S'Adjacent (X,Towards:T) return T	External_Tag	S'External_Tag return String An external string representation of the tagged type.	Lengin	Number of values of the N-th index range of [constrained] array type.	
A.4.	Adjacent floating point number to X in the direction of Towards.	First	A'First (N) return index_type Lower bound of N-th index of [constrained] array type.	Length	A'Length return universal_integer Number of values of the first index range of [constrained]	
Aft	S'Aft return universal_integer  Number of decimal digits needed after the decimal point to accommodate the delta.	First First	A'First return index_type Lower bound of first index of [constrained] array type. S'First return S	Machine	array type.  S'Machine (X:T) return T  Machine representation of floating point argument.	
Alignment	$S \mid X$ 'Alignment return universal_integer Alignment of object.	First Bit	Lower bound of the range of scalar subtype.  R.C'First_Bit return universal_integer	Machine_Emax	S'Machine_Emax return universal_integer Largest (most positive) value of floating point exponent.	
Base	S'Base return S'Base Denotes the base unconstrained subtype of S.	_	Bit offset, from the start of the first of the storage elements occupied by C, of the first bit occupied by C.	Machine_Emin	S'Machine_Emin return universal_integer Smallest (most negative) value of floating point exponent.	
Bit_Order	S'Bit_Order return System.Bit_Order Record subtype bit ordering.	First_Valid	S'First_Valid return S Denotes the smallest value that belongs to S and satisfies the predicates of S.	Machine_Man- tissa	S'Machine_Mantissa return universal_integer Number of digits in machine representation of mantissa.	
Body_Version	P'Body_Version return String Version of the compilation unit that contains the body.	Floor	S'Floor (X:T) return T Largest integral value less than or equal to the argument.	Machine_Over-flows	S'Machine_Overflows return Boolean True if numeric overflow detected for fixed or floating point.	
Callable Caller	T'Callable return Boolean True when the task denoted by T is callable. E'Caller return Task_ID	Fore	S'Fore return universal_integer Minimum number of characters needed before the decimal	Machine_Radix	S'Machine_Radix return universal_integer Radix of machine representation of the fixed or floating point.	
	Identifies the task whose call is now being serviced.	Fraction	point. S'Fraction (X:T) return T	Machine_Rounds	S'Machine_Rounds return Boolean	
Ceiling	S'Ceiling (X:T) return T Smallest (most negative) integral value greater than or equal to argument.	Has Same Stor-	Decompose floating point argument into fractional part.  X'Has_Same_Storage (X2:any_type) return Boolean		True if rounding is performed on inexact results of the fixed or floating point.	
Class	S'Class return class-wide type Returns the class-wide type of tagged type S.	age	Returns True if the representation of X2 occupies exactly the same bits as the representation of X and the objects occupy at least one bit.	Machine_Round- ing Max	S'Machine_Rounding (X:T) return T Yields the integral value nearest to X. S'Max (X1.X2:S) return S	
Class	S'Class return class-wide type Returns the class-wide type for subtype S of an untagged	Identity	E'Identity return Exception_Id Yields unique identity of the exception.	Max Alignment -	Returns the greater of the values of the two parameters.  S'Max_Alignment_For_Allocation return universal	
Component_Size	private type whose full view is tagged.  X'Component_Size return universal_integer Size in bits of components of the array subtype or object.	Identity	T'Identity return Task_Id Yields unique identity of the task.	For_Allocation	integer  Maximum value for Alignment that can be requested by the implementation via Allocate for an access type whose	
Compose	S'Compose (Fraction:T;Exponent:universal_integer) return T	Image	S'Image (X) return String Image of the value of X as a String.	Max Size In -	designated subtype is S.  S'Max_Size_In_Storage_Elements return universal	
	Combine fraction and exponent into a floating point subtype.	Image	X'Image return String Image of the value of X as a String.	Storage_Ele- ments	integer Maximum value for Size_In_Storage_Elements that will be	
Constrained	A'Constrained return Boolean True if A of discriminated type denotes a constant, a value, or a constrained variable.	Index	E'Index return entry_index_subtype Within a precondition or postcondition expression for entry family E, denotes the value of the entry index for the call of	Min	requested via Allocate. S'Min (X1,X2:S) return S The lesser of the values of the two scalar arguments.	
Copy_Sign	S'Copy_Sign (Value,Sign:T) return T Result whose magnitude is that of float Value and whose sign is that of Sign.	Class'Input	E.  S'Class'Input (Stream:access Ada.Streams.Root Stream_Type'Class) return T'Class	Mod	S'Mod (X:T) return S Will correctly convert any integer type to a given modular type (S), using wraparound semantics.	
Count	E'Count return universal_integer Number of calls presently queued on the entry.		First reads the external tag from Stream and determines the corresponding internal tag which can raise Tag_Error and then dispatches to the subprogram denoted by the	Model	S'Model (X:T) return T Model number of floating point type.	
Definite	S'Definite return Boolean True if the actual subtype of a a formal indefinite subtype is definite.		Input attribute of the specific type identified by the internal tag.	Model_Emin	S'Model_Emin return universal_integer Model number version of S"Machine_Emin.	

Model_Epsilon	S'Model_Epsilon return universal_real Absolute difference between the model number 1.0 and the next model number above for subtype.	Relative_Deadline	P'Relative_Deadline return Ada.Real_Time.Time Span Relative deadline of P.	Val	X'Valid return Boolean True if and only if the scalar object denoted by X is normal and has a valid representation.	
Model_Mantissa	S'Model_Mantissa return universal_integer Model number version of S'Machine_Mantissa.	Remainder	S'Remainder (X,Y:T) return T Remainder after dividing the first floating point argument by its second.	Value	S'Value (X:String) return S Returns a value of the subtype given an image of the value as a String argument.	
Model_Small	S'Model_Small return universal_real Smallest positive model number of subtype.	Result	F'Result return X Within a postcondition expression for F, denotes the re-	Version	P'Version return String Yields string that identifies the version of the compilation	
Modulus	S'Modulus return universal_integer The modulus of the modular subtype.		turn object of the function call for which the postcondition expression is evaluated.	Wide Image	unit that contains the declaration of the program unit.  S'Wide_Image (X:S) return Wide_String	
Object_Size	S'Object_Size return universal_integer The size of an object of subtype S. Must be a value that the compiler is able to allocate (usually an entire storage unit).	Round	$F^{\gamma}Round$ (X) return S Fixed-point value obtained by rounding X (away from 0, if X	Wide Image	Image of the value of X as a Wide_String.  X'Wide_Image return Wide_String	
Old	X'Old return T	Rounding	is midway between two values).  S'Rounding (X:T) return T		Image of the value of X as a Wide_String.	
Class'Output	The value of X on entry, has same type as X.  S'Class'Output (Stream:access Ada.Streams.Root	- Transmig	Floating-point integral value nearest to X, rounding away from zero if X lies exactly halfway between two integers.	Wide_Value	S'Wide_Value (X:String) return S Returns a value given an image of the value as a Wide String argument (X).	
·	Stream_Type, Class; X) Writes the external tag of Item to Stream and then dispatches to the subprogram denoted by the Output attribute	Safe_First	S'Safe_First return universal_real Returns lower bound of the safe range.	Wide_Width	S'Wide_Width return universal_integer Maximum length of Wide_String returned by S'Image.	
Output	of the specific type identified by the tag.  S'Output (Stream:access Ada.Streams.Root_Stream	Safe_Last	S'Safe_Last return universal_real Returns upper bound of the safe range.	Wide_Wide_Im- age	S'Wide_Wide_Image (X:S) return Wide_Wide_String Image of the value of X as a Wide Wide String.	
	Type (Class; X) Writes the value of X to Stream, including any bounds or discriminants.	Scale	S'Scale return universal_integer Position of the fixed-point relative to the rightmost significant digits of values of subtype S.	Wide_Wide_Im- age	X'Wide_Wide_Image return Wide_Wide_String Image of the value of X as a Wide_Wide_String.	
Overlaps_Storage	X'Overlaps_Storage (X2) return Boolean Returns True if the representation of X2 shares at least one bit with the representation of the object denoted by X.	Scaling	S'Scaling (X:T;Adjustment:universal_integer) return T Scaling by a power of the hardware radix.	Wide_Wide Value	S'Wide_Wide_Value (X:String) return S Returns a value given an image of the value as a Wide Wide_String argument (X).	
Parallel_Reduce	X'Parallel_Reduce (Reducer, Initial_Value) Reduction expression that yields a result equivalent to replacing the attribute identifier with Reduce and the prefix of	Signed_Zeros	S'Signed_Zeros return Boolean True if positive and negative signed zeros are representable.	Wide_Wide Width	S'Wide_Wide_Width return universal_integer Maximum length of Wide_Wide_String returned by S'Image.	
Partition ID	the attribute with the value_sequence.  D'Partition_ID return universal_integer	Size	S'Size universal_integer Size in bits of objects instantiated from subtype.	Width	S'Width return universal_integer Maximum length of String returned by S'Image.	
Pos	Identifies the partition in which D was elaborated.  S'Pos (X) return universal_integer	Size	X'Size return universal_integer Size in bits of the representation of the object.	Class'Write	S'Class'Write (Stream:access Ada.Streams.Root Stream_Type'Class;X:T'Class)	
Position	Position of the value of the discrete subtype argument. R.C'Position return universal_integer	Small	S'Small return universal_real Small of the fixed-point type.	Write	Writes X to Stream. S'Write (Stream:access Ada.Streams.Root_Stream	
Pred	Same as R.C'Address - R'Address for component C. S'Pred (X) return S	Storage_Pool	S'Storage_Pool return Root_Storage_Pool'Class Returns Storage pool of the access subtype.		Type?Class;X:T) Writes X to Stream.	
Preelaborable -	Predecessor of the argument.	Storage_Size	S'Storage_Size return universal_integer Number of storage elements reserved for the storage pool.			
Initialization	S'Preelaborable_Initialization return Boolean Returns whether the type of S has preelaborable initializa- tion.	Storage_Size	T'Storage_Size return universal_integer Number of storage elements reserved for the task.			
Priority	P'Priority return System.Any_Priority Returns the priority of P.	Stream_Size	S'Stream_Size return universal_integer Number of storage elements reserved for the task.			
Put_Image	S'Put_Image (Buffer: Ada.Strings.Text Buffers.Root_Buffer_Type'Class;X) Writes an image of the value of X.	Succ	S'Succ (X:T) return T Returns successor of the X.			
Range	A'Range return range Equivalent to the range A'First A'Last.	Tag	X S'Tag return Tag Returns the tag of the [class-wide] tagged type or of object X that is a class-wide tagged type.			
Range	S'Range return range Equivalent to the range S'First S'Last.	Terminated	T'Terminated return Boolean Returns True if the task denoted by T is terminated.			
Range	A'Range (N) return range Equivalent to the range A'First(N) A'Last(N).	Truncation	S'Truncation (X:T) return T Returns the value Ceiling(X) when X is negative, else			
Read	S'Read (Stream:access Ada.Streams.Root_Stream Type'Class;X:out T) Reads the value of X from Stream.	Unbiased_Round-	Floor(X). S'Unbiased_Rounding (X:T) return T			
Read	S'Class'Read (Stream:access Ada.Streams.Root Stream_Type'Class;X:out T'Class)	ing	Integral value nearest to X, rounding toward the even integer if X lies exactly halfway between two integers.			
Doduce	Reads the value of X from Stream.	Unchecked_Access	X'Unchecked_Access (X:T) return access type Same as X'Access but lacks accessibility rules/checks.			
Reduce	X V'Reduce(Reducer, Initial_Value) This attribute represents a reduction expression, and is in the form of a reduction_attribute_reference.	Val	S'Val (universal_integer) return S Value of the discrete subtype whose position number equals the value of argument.			

ASPECTS		Elaborate_Body	D with Elaborate_Body => Boolean	Max_Entry	Max_Entry_Queue_Length
Address	X P L with Address => System. Address Address of the first of the storage elements allocated.		A given package will have a body, and that body is elaborated immediately after the declaration.	Queue_Length	The maximum entry queue length for a task type, protected type, or entry.
Aggregate	S with Aggregate => (aggregate) Mechanism to define user-defined aggregates.	Exclusive_Functions	S with Exclusive_Functions => Boolean Specifies mutual exclusion behavior of protected functions in a protected type.	No_Controlled Parts	No_Controlled_Parts A specification that a type and its descendants do not have controlled parts.
Alignment	X S with Alignment => universal_integer Alignment of object or subtype.	Export	P X with Export => Boolean Entity is exported to another language.	No_Return	P with No_Return => Boolean Procedure cannot return normally; it may raise an excep-
All_Calls_Remote	P with All_Calls_Remote => Boolean All indirect or dispatching remote subprogram calls, and all direct remote subprogram calls, should use the Partition	External_Name	P X with External_Name => String Name used to identify an imported or exported entity.	Nonblocking	tion, loop forever, or terminate the program.  Nonblocking
A# 5 ''	Communication Subsystem.	External_Tag	S with External_Tag => String Unique identifier for a tagged type in streams.	Output	Specifies that an associated subprogram does not block.  Output
Allows_Exit	P with Allows_Exit => Boolean An indication of whether a subprogram will operate correctly for arbitrary transfers of control.	Full_Access_Only	X C with Full_Access_Only => Boolean Declare that a volatile type, object, or component is full	0.4401	Procedure to write a value to a stream for a given type, including any bounds and discriminants.
Asynchronous	P with Asynchronous => Boolean Remote procedure calls are asynchronous; the caller con- tinues without waiting for the call to return.	Global	access.  D with Global => global_aspect_definition Global object usage contract.	Output'Class	Output Class Procedure to write a value to a stream for a the class-wide type associated with a given type, including any bounds and discriminants.
Atomic	S X C with Atomic => Boolean Declare that a type, object, or component is atomic.	Global'Class	D with Global'Class => global_aspect_definition Global object usage contract inherited on derivation.	Pack	Pack Minimize storage when laying out records and arrays.
Atomic_Components	A X with Atomic_Components => Boolean Declare that the components of an array type or object are	Implicit_Derefer- ence	A with Implicit_Dereference => Discriminant Mechanism for user-defined implicit .all.	Parallel_Calls	Parallel_Calls Specifies whether a given subprogram is expected to be
Attach_Handler	atomic.  P with Attach_Handler => Ada.Interrupts.	Import	$P \mid X$ with Import => Boolean Entity is imported from another language.	Parallel_Iterator	called in parallel. Parallel_Iterator
	Interrupt_Id Protected procedure is attached to an interrupt.	Independent	X S with Independent => Boolean Declare that a type, object, or component is independently		An indication of whether a subprogram may use multiple threads of control to invoke a loop body procedure.
Bit_Order	S with Bit_Order => System.Bit_Order Order of bit numbering in a record_representation_clause.	Independent	addressable. A R with Independent_Components => Boolean	Post	with Post => Condition Postcondition; a condition that will hold true after a call.
Component_Size	A   X with Component_Size => universal_integer Size in bits of a component of an array type.	Components	Declare that the components of an array or record type, or an array object, are independently addressable.	Post'Class	with Post'Class Postcondition that applies to corresponding subprograms of
Constant_Index- ing	S with Constant_Indexing => P Defines function to implement user-defined indexed_com- ponents.	Inline	P E with Inline => Boolean For efficiency, Inline calls are requested for a subprogram.	Pre	descendant types.  with Pre => Condition
Convention	S P with Convention => convention_identifier Calling convention or other convention used for interfacing	Input	Input Function to read a value from a stream for a given type, including any bounds and discriminants.	D 101	Precondition; a condition that is expected to hold true before a call.
CPU	to other languages.  T with CPU => System.Multiprocessors.CPU_Range	Input'Class	Input 'Class Function to read a value from a stream for a the class-wide	Pre'Class	with Pre'Class => Condition Precondition that applies to corresponding subprograms of descendant types.
Ol O	Processor on which a given task, or calling task for a protected operation, should run.		type associated with a given type, including any bounds and discriminants.	Predicate_Failure	Predicate_Failure Action to be performed when a predicate check fails.
Default_Compo- nent_Value	S with Default_Component_Value => Component_Type Default value for the components of an array-of-scalar subtype.	Integer_Literal	Integer_Literal Defines a function to implement user-defined integer literals.	Preelaborable Initialization	Preelaborable_Initialization Declares that a type has preelaborable initialization.
Default_Initial Condition	<ul> <li>S with Default_Initial_Condition =&gt; Boolean</li> <li>If the Default_Initial_Condition aspect is specified for a type</li> <li>T, then the default initial condition expression applies to S and to all descendants of S.</li> </ul>	Interrupt_Handler	Interrupt_Handler Protected procedure may be attached to interrupts.	Preelaborate	Preelaborate  Code execution during elaboration is avoided for a given package.
Default Iterator		Interrupt_Priority	Interrupt_Priority Priority of a task object or type, or priority of a protected object or type; the priority is in the interrupt range.	Priority	Priority Priority of a task object or type, or priority of a protected
_	Default iterator to be used in for loops.	Iterator_Element	Iterator_Element Element type to be used for user-defined iterators.	Pure	object or type; the priority is not in the interrupt range.  D with Pure
Default_Value	S with Default_Value => scalar value Default value for a scalar subtype.	Iterator_View	Iterator_View		Side effects are avoided in the subprograms of a given package.
Discard_Names	S E with Discard_Names => Boolean Requests a reduction in storage.	Layout	An alternative type to used for container element iterators.  Layout (record)	Put_Image	Put_Image Procedure to define the image of a given type.
Dispatching	P with Dispatching => dispatching_operation specifier		Layout of record components. Specified by a record_representation_clause, not by an aspect_specification.	Read	Read Procedure to read a value from a stream for a given type.
Dispatching_Do- main	. T with Dispatching_Domain => System. Multiprocessors.Dispatching_Domains.Dispatching	Link_Name	Link_Name Linker symbol used to identify an imported or exported entity.	Read'Class	Read 'Class Procedure to read a value from a stream for the class-wide type associated with a given type.
	Domain  Domain (group of processors) on which a given task should run.	Machine_Radix	Machine_Radix Radix (2 or 10) that is used to represent a decimal fixed point type.	Real_Literal	Real_Literal Defines a function or functions to implement user-defined real literals.
Dynamic_Predi- cate	S with Dynamic_Predicate => Boolean Condition that will hold true for objects of a given subtype; the subtype is not static.				roal morals.

Relative_Deadline	T with Relative_Deadline => RD Ensures that the absolute deadline of the task when cre-	Volatile	S X C with Volatile Declare that a type, object, or component is volatile.	PRAGMAS	
Remote_Call_Interface  Remote_Types	ated is RD of type Real_Time.Time_Span.  Remote_Call_Interface Subprograms in a given package may be used in remote procedure calls.  Remote_Types	Volatile_Components  Write	A X with Volatile_Components  Declare that the components of an array type or object are volatile.  Write  Procedure to write a value to a stream for a given type.	Admission_Policy	pragma Admission_Policy (policy_identifier) An admission policy governs the order in which competing tasks are evaluated for acquiring the execution resource associated with a protected object.
Shared Passive	Types in a given package may be used in remote procedure calls.  Shared_Passive	Write'Class	Write 'Class Procedure to write a value to a stream for a the class-wide type associated with a given type.	All_Calls_Remote	pragma All_Calls_Remote [(library_unit_name)] Force all calls on a remote-call-interface library unit from other library units in the same active partition to be remote.
Size	A given package is used to represent shared memory in a distributed system.  Size(S X) Size in bits of objects instantiated from subtype.	Yield	Yield Ensures that a callable entity includes a task dispatching point.	Assert	pragma Assert([Check =>] boolean_expression[, [Message =>] string_expression]) Raises Assertion_Error exception with an optional message when the expression is false.
Small	Small Scale factor for a fixed point type.			Assertion_Policy	pragma Assertion_Policy(Check   Ignore) Enables or disables assertions including pre and post conditions.
Stable_Properties	Stable_Properties A list of functions describing characteristics that usually are unchanged by primitive operations of the type or an individual primitive subprogram.			Assertion_Policy	pragma Assertion_Policy(Pre => Check   Ignore, Post => Check   Ignore) Enables or disables pre and post conditions.
Stable_Proper- ties'Class	Stable_Properties'Class A list of functions describing characteristics that usually are unchanged by primitive operations of a class of types or a primitive subprogram for such a class.			Asynchronous	pragma Asynchronous (local_name) The return message is dispensed with for a remote call on a procedure marked asynchronous.
Static	Static Specifies that an associated expression function can be used in static expressions.			Atomic	pragma Atomic (local_name) Is used with types and variables to specify that the code generated must read and write the type or variable from memory atomically, i.e. as a single/non-interruptible opera-
Static_Predicate	Static_Predicate Condition that will hold true for objects of a given subtype; the subtype may be static.			Atomic_Components	tion.  pragma Atomic_Components (array_local_name) The components of the named array or every array of the named type is to be examined and updated atomically.
Storage_Pool	Storage_Pool Pool of memory from which new will allocate for a given access type.			Attach_Handler	pragma Attach_Handler (handler_name, expression) The handler procedure is attached to the specified inter-
Storage_Size	Storage_Size (access) Sets memory size for allocations for an access type.			Conflict_Check	<pre>rupt. pragma Conflict_Check_Policy (policy_identifier[,</pre>
Storage_Size	Storage_Size (task) Size in storage elements reserved for a task type or single task object.			Policy	<ul><li>policy_identifier])</li><li>This subclause determines what checks are performed relating to possible concurrent conflicting actions.</li></ul>
Stream_Size	Stream_Size Size in bits used to represent elementary objects in a stream.			Convention	pragma Convention ([Convention =>] convention identifier, [Entity =>] local_name) Directs the compiler to represent a type or subprogram using a foreign language convention.
String_Literal Synchronization	String_Literal Defines a function to implement user-defined string literals. P with Synchronization => By_Entry   By			CPU	pragma CPU (System.Multiprocessors.CPU_Range) Processor on which a given task, or calling task for a pro- tected operation, should run.
<i>Synone</i>	Protected_Procedure   Optional Defines whether a given primitive operation of a synchronized interface will be implemented by an entry or protected procedure.			Default_Storage Pool	pragma Default_Storage_Pool (storage_pool indicator) Specifies the storage pool that will be used in the absence of an explicit specification of a storage pool or storage size
Type_Invariant	Type_Invariant Condition that will hold true for all objects of a type.			Detect Blocking	for an access type.  pragma Detect_Blocking
Type_Invari- ant'Class	Type_Invariant'Class A condition that will hold true for all objects in a class of types.			Dottoot_Diodxiiig	Raises Program_Error when a potentially blocking operation is detected that occurs during the execution of a protected operation or a parallel construct defined within a compilation unit to which the pragma applies.
Unchecked Union	Unchecked_Union Type is used to interface to a C union type.			Discard_Names	<pre>pragma Discard_Names [([On =&gt; ] local_name)]</pre>
Use_Formal	Use_Formal Generic formal parameters used in the implementation of			D	Reduce the memory needed to store names of Ada entities, where no operation uses those names.
Variable_Indexing	an entity.  Variable_Indexing			Dispatching_Do- main	pragma Dispatching_Domain (expression)  Domain (group of processors) on which a given task should run.
	Defines function(s) to implement user-defined indexed components.			Elaborate	pragma Elaborate (library_unit_name,) Guarantees that both the spec and body of its argument will be elaborated prior to the unit with the pragma.

Elaborate_All	<pre>pragma Elaborate_All (library_unit_name,) Guarantees that both the spec and body of its argument will be elaborated prior to the unit with the pragma, as well as all units withed by the spec and body of the argument, recursively.</pre>	Optimize	pragma Optimize (identifier) Gives advice to the implementation as to whether time (Time) or space (Space) is the primary optimization criterion, or that optional optimizations should be turned off (Off).	Storage_
Elaborate_Body	pragma Elaborate_Body [(library_unit_name)] Requires that the body of a unit is elaborated immediately after its spec. This restriction guarantees that no client sce- nario can invoke a server target before the target body has	Pack	<pre>pragma Pack (first_subtype_local_name) Directs the compiler to use type representations that favor conservation of storage space, rather than ease of access.</pre>	Suppress
Export	pragma Export ([Convention =>] convention identifier, [Entity =>] local_name [, [External	Page	pragma Page Specifies that the program text which follows the pragma should start on a new page (if the compiler is currently pro- ducing a listing).	Task_Disping_Policy
	Name =>] string_expression] [,[Link_Name =>] string_expression])  Directs the compiler to make available subprograms or data objects written in Ada to foreign computer languages.	Partition_Elabora- tion_Policy	pragma Partition_Elaboration_Policy (policy identifier) Specifies the elaboration policy for a partition.	Unchecke Union Unsuppre
Generate_Dead- lines	erate_Dead- pragma Generate_Deadlines	Preelaborable Initialization	<pre>pragma Preelaborable_Initialization (direct_name) Specifies that all objects of the type have preelaborable initialization expressions.</pre>	Volatile
Import	Time.Clock at the time the task is added to a ready queue plus the value returned by Get_Relative_Deadline.  pragma Import ([Convention =>] convention	Preelaborate	<pre>pragma Preelaborate [(library_unit_name)] Slightly less restrictive than pragma Pure, but still strong enough to prevent access before elaboration problems</pre>	Volatile C
	identifier, [Entity =>] local_name [, [External Name =>] string_expression] [,[Link_Name =>] string_expression]) Directs the compiler to use code or data objects written in a	Priority	within a unit.  pragma Priority (Integer)  Sets a task's priority. The pragma must be called in the task specification.	nents
Independent	foreign computer language.  pragma Independent (component_local_name)  Declare that a type, object, or component is independently addressable.	Priority_Specific Dispatching	pragma Priority_Specific_Dispatching (policy identifier, first_priority_expression, last priority_expression) Specifies the task dispatching policy for the specified range	
Independent Components	<pre>pragma Independent_Components (local_name) Declare that the components of an array or record type, or an array object, are independently addressable.</pre>	Profile	of priorities.  pragma Profile (profile_identifier , profile pragma_argument_association)	
Inline	pragma Inline (name,)  Directs the compiler to inline the code of the given subprogram, making execution faster by eliminating overhead of		Expresses the user's intent to abide by a set of Restrictions or other specified run-time policies. These may facilitate the construction of simpler run-time environments.	
Inspection_Point	the subprogram call.  pragma Inspection_Point [(object_name ,)]  Directs the compiler to ensure that the specified variable is	Pure	<pre>pragma Pure [(library_unit_name)] Guarantees that no scenario within the unit can result in an access before elaboration problem.</pre>	
Interrupt_Handler	available where the pragma appears. This pragma aids in debugging.	Queuing_Policy	pragma Queuing_Policy (FIFO_Queuing Priority Queuing) Defines the queuing policy used on task entry to an Ada	
Interrupt_Handler	<pre>pragma Interrupt_Handler (handler_name) Tell the compiler this is an interrupt handler.</pre>	Relative Deadline	<pre>partition. pragma Relative_Deadline (Real_Time.Time_Span)</pre>	
Interrupt_Priority	<pre>pragma Interrupt_Priority [(expression)] Assigns the given priority to the whole protected object. No other interrupts at or below that level will be enabled whenever the procedure is executing.</pre>	_	Defines deadline.	
		Remote_Call_In- terface	<pre>pragma Remote_Call_Interface [(library_unit name)]</pre>	
Linker_Options	pragma Linker_Options (string_expression) Used to specify the system linker parameters needed when a given compilation unit is included in a partition.	Remote_Types	Categorizes a library-unit as a Remote-Call-Interface.  pragma Remote_Types [(library_unit_name)] Categorizes a library-unit as a Remote-Type.	
List	pragma List (identifier) Specifies that listing of the compilation is to be continued	Restrictions	pragma Restrictions (restriction,) Used to forbid the utilization of some language features.	
Looking Policy	(On) or suspended (Off) until a List pragma with the opposite argument is given within the same compilation.	Reviewable	pragma Reviewable Directs the compiler to provide information that aids inspec-	
Locking_Policy	<pre>pragma Locking_Policy (policy_identifier) Chooses locking policy</pre>	Shared_Passive	<pre>tion of the program's object code. pragma Shared_Passive [(library_unit_name)]</pre>	
No_Return	pragma No_Return (subprogram_local_name, subprogram_local_name) States that a procedure will never return normally; that is, it will raise an exception, loop endlessly, or terminate the program.		Allows the use of passive partitions in the context described in the Ada Reference Manual; i.e., for communication between separate partitions of a distributed application using the features in Annex E.	
Normalize Scalars	pragma Normalize_Scalars Directs the compiler to initialize otherwise uninitialized scalar variables with predictable values. If possible, the compiler will choose out-of-range values.			

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pragma Storage\_Size (expression) Specifies the amount of space to be allocated for the task stack. This cannot be extended, and if the stack is exhausted, then Storage\_Error will be raised (if stack checking is enabled). pragma Suppress (identifier) Gives the compiler permission to omit checks, but does not require the compiler to omit checks. pragma Task\_Dispatching\_Policy (policy\_identifier) Chooses scheduling policies. pragma Unchecked\_Union (first\_subtype\_local\_name)

Denotes an unconstrained discriminated record subtype

Unsuppresses a given check. pragma Volatile (local\_name)

Is used with types and variables to specify that the variable in question may suddenly change in value. For example, this may occur due to a device writing to a shared buffer.

pragma Unsuppress (identifier)

pragma Volatile\_Components (array\_local\_name) Declares that the components of the array type — but not the array type itself — are volatile.

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