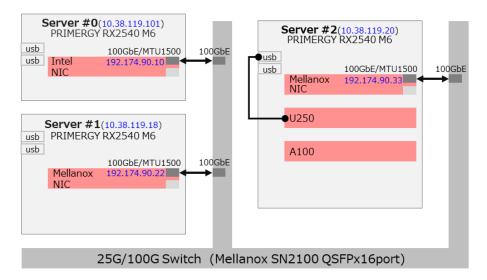
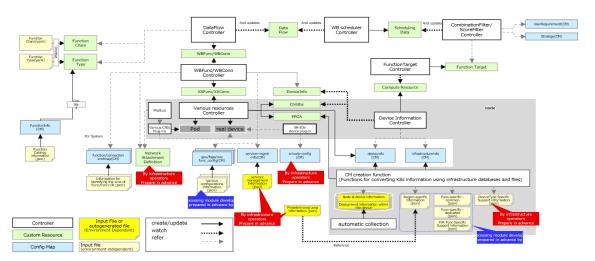
OpenKasugai-Controller Install Manual(Attachment)

Sheet Name	Description
1.assumed environment diagram, etc.	Physical and software configurations assumed in the
1.assumed environment diagram, etc.	construction procedures
2.YAML about	Explanation of the settings
2. TAINL about	Supplementary information sheet available
	Explanation of settings and values. See also
3.Description of the input data (JSON) used to create C	supplementary sheet
	Supplementary information sheet available
4. CRC YAML for daemonset about	Explaining the Contents of CRC's YAML for Daemonset
E. Dosgription of dovice infective	automatic collection&CM Description of the output of
5. Description of device_info.txt	the creation tool



Physical configuration diagram



Overall software configuration diagram

to treate to deploy be	staFlow by using ~/controller/sample-data/sample-data-demo/yaml/dataflows/test-ext	-1/urtest-ext-1-1 as an example.
DataFlow YAML	dress and port number) used by Pod of each processing module, refer to "2. (Supplem Description	nk)" Remarks
apiVersion: example.com/v1 kind: DataFlow metadata:		
name: "df-test-3-1-1-1" namespace: "test01"	Be set by the user Be set by the user	
spec: functionChainRef: name: "cpu-decode-cpu-filter-resize-2types-high-inl		
namespace: "chain-imgproc"	FunctionChain metadata.Namespace used by DataFlow	Only function chain requirements can be specified in the current prototype (common requirements apply to
all:	Describe the requirements that must be met during scheduling Describe requirements for function chain as a whole	all functions)
capacity: 15 functionUserParameter: - functionKey: decode-main	Describe the assumed load (fps)	Each connection and the estimated load for each connection (fos)
userParams:	CPU decoding Function identifier	Specify the IP address of the same subnet as the physical IP address of the 100GNIC that created the VF
ipAddress: 192.174.90.101/24 inputPort: 5004	The own IP address. Set as the IP address of Pod 2nd NIC own port number	of the SR-IOV.
outputIPAddress: 192.174.90.111 outputPort: 15000	Destination (CPU filter/resize) IP address Destination (CPU filter/resize) port number	
functionKey: filter-resize-high-infer-main userParams:	CPU filter/resize Function identifier	Specify the IP address of the same subnet as the physical IP address of the 100GNIC that created the VF
ipAddress: 192.174.90.111/24 inputPort: 15000	The own IP address. Set as the IP address of Pod 2nd NIC own port number	of the SR-IOV.
outputIPAddress: 192.174.90.121 outputPort: 16000	Destination (copy branch) IP address Destination (copy branch) port number	
- functionKey: copy-branch-main userParams:	coov branch Function identifier	Specify the IP address of the same subnet as the physical IP address of the 100GNIC that created the VF
ipAddress: 192.174.90.121/24 inputIPAddress: 192.174.90.121	The own IP address. Set as the IP address of Pod 2nd NIC You can set the same IP address as your own ipAddress.	of the SR-IOV. You only need to set the same IP address as your own ipAddress (you do not need to set the subnet
inputPort: 16000 branchOutputIPAddress: 192.174.90.141,192.174.5	own port number Specify destination (GPU advanced inference 1, GPU advanced inference 2) IP	
branchOutputPort: 17000,18000	addresses separated by commas Specify destination (GPU advanced inference 1, GPU advanced inference 2) port numbers separated by commas	
- functionKey: infer-1 userParams:	GPU advanced inference Function1 identifier	
ipAddress: 192.174.90.141/24	The own IP address. Set as the IP address of Pod 2nd NIC	Specify the IP address of the same subnet as the physical IP address of the 100GNIC that created the VF of the SR-IOV.
inputIPAddress: 192.174.90.141 inputPort: 17000	The own IP address. Used for GStreamer video processing commands (fpgpay) (no subnet mask setting required)	You only need to set the same IP address as your own ipAddress (you do not need to set the subnet mask).
outputIPAddress: 192.174.90.10 outputPort: 2001	own port number Destination (Video reception tool) IP address Destination (Video reception tool) port number	
- functionKey: infer-2 userParams:	GPU advanced inference Function2 identifier	
ipAddress: 192.174.90.142/24	The own IP address. Set as the IP address of Pod 2nd NIC	Specify the IP address of the same subnet as the physical IP address of the 100GNIC that created the VF of the SR-IOV.
inputIPAddress: 192.174.90.142 inputPort: 18000	The own IP address. Required for GStreamer video processing command execution (fpgpay) own port number	You can set the same IP address as your own ipAddress.
outputIPAddress: 192.174.90.10 outputPort: 2002	Destination (Video reception tool) IP address Destination (Video reception tool) port number	
userRequirement: user-requirement	Specifies metadata.name of UserRequirement ConfigMap to be referenced to obtain various configuration information for DataFlow scheduling	For details, refer to "Section 9.9 Setting the Scheduling Strategy for DataFlow" in "OpenKasugai-Controller Install Manual"
FunctionChain YAML	Description	Remarks
apiVersion: example.com/v1 kind: FunctionChain metadata:		
name: cpu-decode-cpu-filter-resize-2types-high-infer- namespace: chain-imgproc	Be set by the user Be set by the user	
spec: functionTypeNamespace: "wbfunc-imgproc" connectionTypeNamespace: "default"	FunctionType Namespace	
functions:	ConnectionType Namespace map of the Functions that make up FunctionChain key is the Function identifier specified in Connections From or To (a character string	Not used in the current prototype
decode-main:	unique for this FunctionChain resource. The string to be used in each CR Identifier of the CPU decoding Function	
functionName: "cpu-decode" version: "1.0.0"	Name, Version defined in FunctionTypeSpec	
filter-resize-high-infer-main: functionName: "cpu-filter-resize-high-infer" version: "1.0.0"	CPU filter/resize Function identifier Name, Version defined in FunctionTypeSpec	
copy-branch-main: functionName: "copy-branch"	CPU copy branch Function identifier Name, Version defined in FunctionTypeSpec	
version: "1.0.0" infer-1: functionName: "high-infer"	GPU advanced inference (first) Function identifier	
version: "1.0.0" infer-2:	Name, Version defined in FunctionTypeSpec GPU advanced inference (second) Function identifier	
functionName: "high-infer" version: "1.0.0"	Name, Version defined in FunctionTypeSpec	
connections: - from:	List of Connections that make up FunctionChain Source Function Information in Connection	-If Connection From is a FunctionChain (FC) starting point (equivalent to a data source such as a
functionKey: "wb-start-of-chain"	Identifier of the data source Function. Set Functions map key value	surveillance camera), set the string to start with "wb-start-of-chain." -When there are multiple start points such as FC with integration points inserted, a number or character string should be added after "wb-start-of-chain" to set a unique character string in this FC (Example 1: "wb-start-of-chain" to set a unique character string in this FC (Example 1: "wb-start-of-chain" or "wb-star
port: 0	Output port identification number of the data transmission source Function (If Function is 1 output, spacify (I))	yyy"). Not a TCP/UDP port number
port: 0 to: functionKey: "decode-main"	Function is 1 output, specify 0) Destination Function information in Connection Identifier of the data destination Function. Set Functions map key value	yyy").
to: functionKey: "decode-main" port: 0	Function is 1 output, specify 0) Destination Function information in Connection Identifier of the data destination Function. Set Functions man key value. Input port identification number of the data transmission destination Function (If Function 1s I input, specify 0).	VOY"). Not a TCP/UDP port number Not a TCP/UDP port number
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Section of the control of the contro		Interface type of output available when deployed to the above <regiontype></regiontype>	
Section 1997 **Control 1997		above and using <inputinterfacetype> and <outputinterfacetype> above Name of the function spec information when deployed to <regiontype> above and</regiontype></outputinterfacetype></inputinterfacetype>	
Security Conference of the Con		using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype>	
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AND CONTROLLED OF TRANSPORT AND CONTROLLED O		Name of the function spec information when deployed to <regiontype> above and</regiontype>	
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Section 1. The control of the contro	"name": "spec1",		
The control of the co	"maxCore": 1,	Maximum number of resources to use	
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and the control of th	}	using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype>	
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**Common Common	spec: '[A string value of an array whose elements are json objects consisting of the following key-values:	Not used in the current prototype
"Machanitation of the common processing Desiration (names on middle) with function (names of the common processing of the	"name": "spec1",	A name that refers to an element of the spec array.	
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A APPROXIMENT OF THE PROPERTY OF THE PROXIMENT OF THE PRO	}	Maximum number of outputs of the function	
mentalized files control reserving in display shaddoms T	- apiVersion: v1		
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"Interface to any of money and state of which and deliber of the above consorting of the following above c	"regionType": "alveo",	Deployable region type	
Companyers - Specimen	"outputInterfaceType": "mem",	Interface type of output available when deployed to the above <regiontype></regiontype>	
As a set but office for some of conditional will be designed below as a set of the some of	"configName": "Ipgatunc-config-filter-resize-low-in		
An arranged from the closes to an enforcement and the designation of the designation and the designation of			
"moderations for "more", "more", "more of the control for the	"specName": "spec1"	Name of the function spec information when deployed to <regiontype> above and</regiontype>	
"Golphisting Types" "man"; "configuration" splaned: "sepectation" special in the control of the function special between the special consisting of the following special production of the function of the function special production of the function of	"specName": "spec1"), { "name": "item2",	above and using "applichmenace types above and courbulinterface types above and using cinoutinterface types above and using cinoutinterfaceTvpes and coutoutInterfaceTvpes above and using cinoutinterfaceTvpes and coutoutInterfaceTvpes above	
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Surprise: **Tame(**) Specify* **Tame(**) Spec	"specifame": "specif" }; ("name": "Rem2", "report/yee": "alveo", "report/yee": "alveo", "report/yee": "rem", "soutputterrefert/yee": "rem", "configName": "Specific - resize-low-ir	storie are ulero cregoriamente riper and cologiamente riper above and blame of the fundrous per information with editory text or region Type above and ulero credition from the cologiam of	
"menchant": 8, Meanman member of resources to use "manufactor": 8, Meanman member of resources to use of r	"specName", "spect"), "specify "spect" "repair", "family", "specify "spect", "specify "specify", "specify "specify "specify", "mem", "souput interface type", "mem", "souput interface type", "mem", "specify "specify", "specify	account and used consumeration report and adaption immediately per-shore and using circumstances and consumeration and consumeration and A caree that refers to an element in the deployable linear survey. Destoyable region type: Interface type of large value of the period of the shore cropion Types Interface type of large value (and the period of the shore cropion Types large of intermediate required for deployment when deploying to expendity per- lament of the period of the period of the shore cropion Types have of the function spec information when deployed to region Types above and using cingotification Types and conductor for the function Specification information for the function.	
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The complete of the number of channels in the cercuit The complete of the control of the contro	"specName": "spec1" }; "ranne": "Rem3"; "roundstefacet ryge": "mem"; "roundstefacet ryge": "mem"; "output/later facet ryge": "mem"; "specName": "spec1"; "specName": "spec1" } spec: " {	action of the fact city representation special wifer deployed the death of the same and using city of the same array. A name that refers to an element in the deployabilities array. A name that refers to an element in the deployabilities array. Interface type of plant available when deployed to the above cregon Types Interface type of plant available when deployed to the above cregon Types above and using city of the same and the same an	Not used in the current prototype
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aphyration: v1 Vanit Conforting on Microsoptic Conforting Confort	"specName"; "spec1"), "repenlyse"; "sleve", "reponlyse"; "sleve", "specification ("specification") "specification"; "specification"; "specification"; "specification"; "specName"; "spec1" "specification"; "spec1", "minCom"; "spec1", "spec1	account of the control of the contro	Net used in the current prototype
Sized: Confidence or control of the following states of the following states or control of the following states or contro	"specName": "spect"). "cepenType": "sheet" "spectNeet": "sheet" "spectNeet": "sheet" "spectNeet": "spect" "spectNeet": "spect" "spectNeet": "spect" "spectNeet": "spect" "spectNeet": "spect" "spectNeet": "spectNe	across that used consumerate upon all an application mental upon above and using circumstance. As a second of the consumerate upon a second and consumerate upon a second in the deployable array. Across that refers to an atement in the deployable lines array. Deployable respiration to the consumerate upon a second proper interface trayer of using a visibility with an elegible of the above cregion Types— Interface trayer of using a visibility with an elegible of the above cregion Types— Interface trayer of using a visibility with a deployed to the above cregion Types— Interface trayer of using a visibility with a deployed to the above cregion Types— Interface trayer of using a visibility with a deployed to cregion Types— Name of the function equal for interface when deployed to cregion Types— above and using a cipacification from the function. A string value of an array whose elements are juin objects consisting of the following service of the construction of the language of the following service of the construction of the language array. Maximum number of resources to use See maximum perchange of resources to use See maximum perchange of function inputs Alexamum number of function inputs	Not used in the current prototype
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"report/pre"; "cpr.", "most 100 getter", "interface to bee of most available when declored to the above - respon't/pre> "report/pretter/pre," "host 100 getter", "interface to bee of most available when declored to the above - respon't/pre> "report/pretter/pretty/prett	"specName"; "spect"), "specName"; "spect"), "specifyer"; "sheer", "specifyer"; "sheer", "specifyer"; "spect" "spectiame"; "spects" "spectiame"; "spects" "spectiame"; "spects" "spectiame"; "spects", "spects", "spectiame"; "spects", "spects", "spectiame"; "spects", "spectiam	sides of an used control general control and an expension and an expension and used control general control and used control	Not used in the current prototype
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As a proper of the following the content of the following	"specName", "spect"), "copport "spect", "repair "spect", "specified "spect", "mem", "output interface Type", "mem", "output interface Type", "mem", "output interface Type", "mem", "output interface Type", "mem", "specName", "spect", "spect "spect", "spect", "macCare", "spect", "macCa	action are used constructioners report and adoption interesting the second and used constructions report and action constitution of the forest to an attended in the deployabilities array. Anners that refers to an attended in the deployabilities array. Onsignative region have Interface type of county availabilities when deployed to the above cregion Types- Interface type of dought availabilities when deployed to the above cregion Types- Interface type of dought availabilities when deployed to the above cregion Types- Interface type of dought availabilities when deployed to the above cregion Types- Interface type of dought availabilities when deployed to cregion Types- Interface type of dought availabilities when deployed to cregion Types- Interface type of dought availabilities when deployed to cregion Types- Interface type of dought availabilities when deployed to cregion Types- Interface type of dought availabilities when deployed to cregion Types- Interface type of the function spec information when deployed to cregion Types- Interface type of the function and the function of the function and the function of the function are consistent of the function of the fu	Not used in the current prototype
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specify A string value of an array whose elements are pion objects consisting of the following Not used in the current prototype services: **Team**.**********************************	"specName", "spect"), "specName", "spect"), "special "spect", "special "spect", "spect" "special "spect", "spect" "special "spect", "spect" "spectiame", "spect" "spectiame", "spect" "spect", "spectiame", "spectiam	account and used consumerator upon and adoption immersion per a score under consumerator upon a score and used consumerator upon and adoption of the consumerator upon a score and used consumerator upon a co	Not used in the current prototype
Services: Same Specification Services Services	"specName"; "spect"), "cregoritype"; 'sheer', "reporitype"; 'sheer', "specifyer'; 'sheer', "specifyer'; 'sheer', "specifyer'; 'sheer', "specifyer'; 'spect' *specName"; "spect', "spect', "	account and used consumerator upon and adoption immersion per a score under consumerator upon a score and used consumerator upon and adoption of the consumerator upon a score and used consumerator upon a co	Not used in the current prototype
Temporary 1. Minimum number of resources to use **TransConery 1.** Meantum number of reducts of the second number of resources to use and use of the sec	"specName", "spect"), "crepenType", "taken", "respectName", "taken", "spectName", "spect "yas", "mem", "output/interface Type", "mem", "output/interface Type", "mem", "output/interface Type", "mem", "spectName", "spect", "spectName", "spect", "spectName", "spect", "spectName", "spect1" "spectName", "spectName"	according to lead of control control report and according to the control contr	
Transchafforwithers: 1,	"specName", "spect"), "crepenType", "taken", "respectName", "taken", "spectName", "spect "yas", "mem", "output/interface Type", "mem", "output/interface Type", "mem", "output/interface Type", "mem", "spectName", "spect", "spectName", "spect", "spectName", "spect", "spectName", "spect1" "spectName", "spectName"	account and used consortiement upon and adoption immension year above and used consortiement upon and adoption and used consortiement upon and used consortiement upon and used used consortiement upon a decrease of the consortiement upon and used used used used used used used use	
Transplant/files*: 1.5. Blace Mak Procession Provided (FIDA) Transplant/files*: 1.5. Blace Mak Provided (FIDA) Tr	"specName", "spec1"). "specify "spec", "spec1" "region Type", "sheet", "specify "sheet", "specify "specify", "mem", "suputifier face Type", "specif", "specify",	account and used consocial registers (yes a finit - adjustmentate) yes above and used consocial registers (yes a finit - adjustmentate) yes a single consocial registers (yes a finit - adjustmentate). As a new that refers to an element in the decloyabelithems array. Organization registers from the decloyabelithem array. Organization registers (yes a finite registers of proper adjustmentate) and the above - register hypeoper (yes a finite registers of proper adjustmentate). The registers of proper adjustmentates (yes a finite registers of proper adjustmentates) and organization registers are declarated interfered proper adjustmentates (yes a finite registers) and organization registers (yes a finite registers). Specification information for the function A string value of an array whose elements are juin objects consisting of the following between the registers of resources to use the number of denators to use elements of the spec array. Minimum number of resources to use the support of the following between the control of resources to use the number of denators in the control of the finite function. A string value of an array whose elements are juin objects consisting of the following between the finite function of the function position information required for deployment when deploying to engion figure. A form or and organization required to deployment when deploying to engion figure. Specification information required for deployment when deploying to engion figure. Specification information required for deployment when deploying to engion figure. Specification information required for deployment when deploying to engion figure. Specification information for the function. A string value of an array whose elements are juin objects consisting of the follo	
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	"specName", "spect"), "specName", "spect"), "responType", "sheer", "specName", "spect", "spectName", "spectName", spectName", spectName", spectName", spectName, sp	accord and used consocialization report and adoption immersion yet a spore and used consocialization report and according to the consocial report and used consocialization and used to the consocial report and used to the consocial	
Kiert: ConfigNage	"specName": "spect"). "specName": "spect" "respectives": "sheet", "spectives": "spect" "spectives": "spect" "spectives": "spect" "spectives": "spect" "spectives": "spect" "spectives": "spect", "spectives": "spect", "spectives": "spect", "spectives": "spect", "spectives": "spectives: "s	account and used consumerators upon and adaption immediately per above and used consumerators (per above and used consumerators) and used to the used	
metabatis	"specName": "spect"). "specName": "spect" "respectives": "sheet", "spectives": "spect" "spectives": "spect" "spectives": "spect" "spectives": "spect" "spectives": "spect" "spectives": "spect", "spectives": "spect", "spectives": "spect", "spectives": "spect", "spectives": "spectives: "s	account and used consumerators upon and adaption immediately per above and used consumerators (per above and used consumerators) and used to the used	
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{ "name": "item1",	"specName", "spec1"). "specName", "spec1"). "responType", "taken", "specName", "spec1" "specName", "spec1" "specName", "spec1" "specName", "spec1" "specName", "spec1" "specName", "spec1", "spec1	account and used consumerators upon and adaption immediately per above and used consumerators (per above and used consumerators) and used to the used	
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specklarme. *special series of the function spec information when deployed to keeping the shove and using singulariterface*types above and using singulariterface*types and coupturaliterface*types above and using singulariterface*types and coupturaliterface*types above and using singulariterface*types and coupturaliterface*types above	"specName"; "spect"). "specinyes"; "alwes", "specinyes"; "alwes", "specinyes"; "alwes", "specinyes"; "alwes", "specinyes"; "alwes", "specinyes"; "alwes", "specinyes"; "spec	account and used consocial memory layer and used control interface types above and used control interface types and used control interface types above and used types	
spectrame: spect using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype>	"specName", "spect"). "specifyer" taken", "specifyer" taken together" "specifyer" taken", "specifyer" taken together" "specifyer" "s	account and used consocialization report and acquisite interest pre- above and used consocialization consocialization and acquisite interest pre- above and used to the above cropson type- interior to pre- dispose the pre- above and used to the above cropson type- interior to pre- dispose and pre- above and used to the above cropson type- interior to pre- dispose and pre- above and used to the above cropson type- above and used to the above cropson type- above and used consocialization pre- and consocialization when deployed to cropson type- above and using cinguisite fraction pice and consocialization and the forest pre- and consocialization and acquisite acquisite and acquisite and acquisite and acquisite acquisite and acquisite acquisite and acquisite ac	
T	"specName", "spect"), "specName", "spect", "specnityse", "sheer", "specnityse", "sheer", "specnityse", "sheer", "specnityse", "sheer", "spectives", "spect", "spectives", "spect", "spectives", "spect", "spectives", "spect", "spectives", "spect", "spectives", "spectives, "spectives	account and users' conjusting the part of the confidence and the confidence and users' conjusting the part of the confidence and the confidence an	
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	Specification information for the function	
spec: '[A string value of an array whose elements are json objects consisting of the following key-values:	Not used in the current prototype
"name": "spec1", "minCore": 1,	A name that refers to an element of the spec array. Minimum number of resources to use	
"maxCore": 1, "maxDataFlowsBase": 1,	Maximum number of resources to use Base maximum percentage DataFlow (maximum installed WBFunction). Depend on	
"maxCapacityBase": 15, "maxInputNum": 1,	the number of channels in the circuit Base Max Processing Power (fps) Maximum number of function inputs	
"maxOutputNum":1 }	Maximum number of outputs of the function	
]' - apiVersion: v1		
kind: ConfigMap metadata: name: funcinfo-copy-branch		
namespace: wbfunc-imgproc data:		
deployableItems: "[A string value of an array whose elements are json objects consisting of the following key-values:	
"name": "item1", "regionType": "cpu",	A name that refers to an element in the deployableItems array. Deployable region type	
"inputInterfaceType": "host100gether", "outputInterfaceType": "host100gether",	Interface type of input available when deployed to the above <regiontype> Interface type of output available when deployed to the above <regiontype></regiontype></regiontype>	
"configName": "cpufunc-config-copy-branch",	Name of information required for deployment when deploying to <regiontype> above and using <inputinterfacetype> and <outputinterfacetype> above Name of the function spec information when deployed to <regiontype> above and</regiontype></outputinterfacetype></inputinterfacetype></regiontype>	
"specName": "spec1" }	using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype>	
ľ	Specification information for the function	
spec: '[A string value of an array whose elements are json objects consisting of the following key-values:	Not used in the current prototype
"name": "spec1", "minCore": 1,	A name that refers to an element of the spec array. Minimum number of resources to use	
"maxCore": 1, "maxDataFlowsBase": 1,	Maximum number of resources to use Base maximum percentage DataFlow (maximum installed WBFunction). Depend on	
"maxCapacityBase": 15, "maxInputNum": 1,	the number of channels in the circuit Base Max Procession Power (fos) Maximum number of function inputs	
"maxOutputNum":10 }	Maximum number of outputs of the function	
- apiVersion: v1		
kind: ConfigMap metadata: name: funcinfo-glue-fdma-to-tcp		
namespace: wbfunc-imgproc data:		
deployableItems: "[A string value of an array whose elements are json objects consisting of the following key-values:	
"name": "item1", "regionType": "cpu",	A name that refers to an element in the deployableItems array. Deployable region type	
"inputInterfaceType": "mem", "outputInterfaceType": "host100gether",	Interface type of input available when deployed to the above <regiontype> Interface type of output available when deployed to the above <regiontype></regiontype></regiontype>	
"configName": "cpufunc-config-glue-fdma-to-tcp",	Name of information required for deployment when deploying to <regiontype> above and using <inputinterfacetype> and <outputinterfacetype> above Name of the funding continues information when deploying to <input interfacetype=""/> above </outputinterfacetype></inputinterfacetype></regiontype>	
"specName": "spec1" }	Name of the function spec information when deployed to <regiontype> above and usino <inoutinterfacetvpe> and <outputinterfacetvpe> above</outputinterfacetvpe></inoutinterfacetvpe></regiontype>	
1'	Specification information for the function	
spec: '[A string value of an array whose elements are json objects consisting of the following key-values:	Not used in the current prototype
"name": "spec1", "minCore": 1,	A name that refers to an element of the spec array. Minimum number of resources to use	
"maxCore": 1, "maxDataFlowsBase": 1,	Maximum number of resources to use Base maximum percentage DataFlow (maximum installed WBFunction). Depend on	
"maxCapacityBase": 15, "maxInputNum": 1,	the number of channels in the circuit Base Max Processing Power (fps) Maximum number of function inputs	
"maxOutputNum":1	Maximum number of outputs of the function	
]' - apiVersion: v1		
kind: ConfigMap metadata: name: funcinfo-high-infer		
namespace: wbfunc-imgproc data:		
deployableItems: "[A string value of an array whose elements are json objects consisting of the following key-values:	
"name": "item1", "regionType": "a100",	A name that refers to an element in the deployableItems array. Deployable region type	
"inputInterfaceType": "host100gether", "outputInterfaceType": "host100gether",	Interface type of input available when deployed to the above <regiontype> Interface type of output available when deployed to the above <regiontype></regiontype></regiontype>	
"configName": "gpufunc-config-high-infer",	Name of information required for deployment when deploying to <regiontype> above and using <inputinterfacetype> and <outputinterfacetype> above Name of the function spec information when deployed to <regiontype> above and</regiontype></outputinterfacetype></inputinterfacetype></regiontype>	
"specName": "spec1" },	using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype>	
{ "name": "item1", "regionType": "a100",	A name that refers to an element in the deployableItems array. Deployable region type	
"inputInterfaceType": "mem", "outputInterfaceType": "host100qether",	Interface type of input available when deployed to the above <regiontype> Interface type of output available when deployed to the above <regiontype></regiontype></regiontype>	
"configName": "gpufunc-config-high-infer",	Name of information required for deployment when deploying to <regiontype> above and using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype></regiontype>	
"specName": "spec1"	Name of the function spec information when deployed to <regiontype> above and using <inputinterfacetype> and <outputinterfacetype> above</outputinterfacetype></inputinterfacetype></regiontype>	
ı,	Specification information for the function	
spec: '[A string value of an array whose elements are json objects consisting of the following key-values:	Not used in the current prototype
{ "name": "spec1", "minCore": 1,	A name that refers to an element of the spec array. Minimum number of resources to use	
"maxCore": 1, "maxDataFlowsBase": 1,	Maximum number of resources to use Base maximum percentage DataFlow (maximum installed WBFunction). Depend on	
"maxCapacityBase": 15, "maxInputNum": 1,	the number of channels in the circuit Base Max Processing Power (fps)	
maxInputNum":1, "maxOutputNum":1 3	Maximum number of function inputs Maximum number of outputs of the function	
- apiVersion: v1		
- apiVersion: v1 kind: ConfigMap metadata: name: funcinfo-low-infer		
- apiVersion: v1 kind: ConfigMap metadata:		
- apiVersion: v1 kind: ConfigMap metadata: name: funcinfo-low-infer namespace: wbfunc-imgproc	A string value of an array whose elements are join objects consisting of the following ter-values:	
- apilversion: v1. kindt: ConfigNap metadata: namer: functinfo-lose-infer namessace: wbfunc-improc ddata: deployableItems: "[{	A string value of an array whose elements are joon objects consisting of the following has revealed: A same that refers to an element in the deployable/times array.	
- apilversion: v1 kindt: ConfigNap metadata: name: funcinfo-ion-infer namespace: wifunc-improc data: deployabeltems: { {	A string value of an array whose elements are join objects consisting of the following born values: A name that refers to an element in the deployableibres array. Controlled motion to the controlled product of the above region types. Interface type of output available when deployed to the above region types. Interface type of output available when deployed to the above region types.	
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- galverson. v1 Mond: ConfigNap metadata metadata metadata deployabeltems: {	A string value of an array whose elements are join objects consisting of the following become the property of the property of the following A name that refers to an element in the deployabilities array. Orgiousless region type: A name that refers to an element in the deployabilities array. Orgiousless region in the property of the above region in the property of the fundion spec information when deployable to region/types above and using computerfulners price and conductoring of the property of the fundion spec information when deployabilities are region/types above and using consultant refers to be a element in the deployabilities array. Deployability in resion to be interested to the above region/types interface types of prints of wallable when deployabilities are region/types interface type of input available when deployed to the above region/types interface type of input available when deployed to the above region/types above and using required freedings and conductoring the property and open and using the above region/types above and using required freedings and conductoring the property and conductoring the property of the property	
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späterson.1 bund. Confightip metaldiss metaldiss metaldiss metaldiss dephysibiliteris (data: framerin "term!", "region"yer", "tid", "specklame", "specklame", "owner", "specklame", "specklame", "region", "region lyer", "tid",	A string value of an array whose elements are just objects consisting of the following kern-values: A same that refers to an element in the displayable/times array. Condivibile records to be element of the displayable/times array. Interface type of input available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of input available when designed to the above -region/Type- Interface type of input available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available when designed to the above -region/Type- Interface type of output available than designed to the above -region/Type- Interface type of output available than designed to the above -region/Type- Interface type of output available than designed to the above -region/Type- Interface type of output available than designed to the above -region/Type- Interface type of output available than designed to the above -region/Type- Interface type of output available than denies designed to the above -region/Type- Interface type of t	
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agateration v1 Morti Confighting irrections; irrections; irrections; displays the property of the configuration o	A string value of an array whose elements are join objects consisting of the following terr-values: A name that inders to an element in the deployablethems array. A name that inders to an element in the deployablethems array. Interface type of limput available when deployed to the above -responsive properties of the properties of t	Not used in the current prototype
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Describe the settings of network information (IP address and port number) used by Pod of each processing module in DataFlow YAML file of "2. YAML Description" The following A shows the settings common to all processing modules, and the following B shows the settings for each processing module.

DataFlow YAML	Description
apiVersion: example.com/v1	
kind: DataFlow	
metadata:	
name: "df-test-3-1-1-1"	Be set by the user
namespace: "test01"	Be set by the user
spec:	
functionChainRef:	
	FunctionChain metadata.Name used by DataFlow
namespace: "chain-imgproc"	FunctionChain metadata.Namespace used by DataFlow
requirements:	Describe the requirements that must be met during scheduling
all:	Describe requirements for function chain as a whole
capacity: 15	Describe the assumed load (fps)
functionUserParameter:	
- functionKey: decode-main	CPU decoding Function identifier
userParams:	
ipAddress: 192.174.90.101/24	The own IP address. Set as the IP address of Pod 2nd NIC
inputPort: 5004	own port number
outputIPAddress: 192.174.90.111	Destination (CPU filter/resize) IP address
outputPort: 15000	Destination (CPU filter/resize) port number
- functionKey: filter-resize-high-infer-main	CPU filter/resize Function identifier
userParams:	
ipAddress: 192.174.90.111/24	The own IP address. Set as the IP address of Pod 2nd NIC
inputPort: 15000	own port number
outputIPAddress: 192.174.90.121	Destination (copy branch) IP address
outputPort: 16000	Destination (copy branch) port number
- functionkey: copy-pranch-main	copy branch Function Identifier
userParams:	
ipAddress: 192.174.90.121/24	The own IP address. Set as the IP address of Pod 2nd NIC
inputIPAddress: 192.174.90.121	You can set the same IP address as your own ipAddress.
inputPort: 16000	own port number
	Specify dectination (CDI) advanced inference 1, CDI) advanced inference 2\ ID
branchOutputIPAddress: 192.174.90.141,192.174	addresses separated by commas
branchOutputPort: 17000,18000	Specify destination (GPU advanced inference 1, GPU advanced inference 2) port numbers separated by commas
- functionKey: infer-1	GPU advanced inference Function1 identifier
userParams:	or o davaness interests and one interests
ipAddress: 192.174.90.141/24	The own IP address. Set as the IP address of Pod 2nd NIC
inputIPAddress: 192.174.90.141	The own IP address. Used for GStreamer video processing commands (fpgpay)
	(no subnet mask setting required)
inputPort: 17000	own port number
outputIPAddress: 192.174.90.10 outputPort: 2001	Destination (Video reception tool) IP address Destination (Video reception tool) port number
- functionKey: infer-2	GPU advanced inference Function2 identifier
userParams:	GFO dayanced interence Function2 Identifier
ipAddress: 192.174.90.142/24	The own IP address. Set as the IP address of Pod 2nd NIC
inputIPAddress: 192.174.90.142	The own IP address. Required for GStreamer video processing command execution (fpgpay)
inputPort: 18000	own port number
outputIPAddress: 192.174.90.10	Destination (Video reception tool) IP address
outputPort: 2002	Destination (Video reception tool) port number
userRequirement: user-requirement	Specifies metadata.name of UserRequirement ConfigMap to be referenced to
	obtain various configuration information for DataFlow scheduling

A. Settings common to all processing modules

- ·If this is a processing module running on an Pod and the source for this is a processing module or Video stream tool running on another Pod, set the ipAddress and inputPort.
- ·It is itself a processing module running on Pod.

If your destination is a processing module or Video reception tool running on another Pod, set ipAddress and outputIPAddress and outputPort.

- ·Some processing modules set inputIPAddress for processing specific to the processing module in question.
- ·When setting ipAddress, inputIPAddress, and outputIPAddress,

In "8.9 Creating and Managing VFs for SR-IOV" in "OpenKasugai-Controller Install Manual"

Set the IP address of the common subnet with the physical IP address of the 100GNIC that created the VF.

·None of the above is required for FPGA Decode/FPGA filter/resize processing modules that do not run on Pod.

B. Settings for each processing module

A. For using CPU decoding

functionKey: decode-main

userParams:

(1) ipAddress: 192.174.90.101/24 The own IP address. Set as the IP address of Pod 2nd NIC

(2) inputPort: 5004 own port number (3) outputIPAddress: 192.174.90.111 Destination IP address Destination IP address (4) outputPort: 15000

Addendum for (2): The port number value is the port number of the CPU decoding processing module specified in stream tool Video Describe.

The following is an excerpt from Section 1.3.3 (1)(1-1) of the "OpenKasugai-Demo"

```
/opt/video/pocdemo movie/day scene/d1 12 Videvo-
./start gst sender.sh
4 2K 160929 057 London_WestminsterBridge7_1080p_5min_conv_4K_8Mbps_15fps.mp4
192.174.90.101 5004 1 ${sleep_time:-3}←
./start gst sender.sh
                             /opt/video/pocdemo movie/day scene/d2 06 Pexels-
15 4K pexels-c<u>reativ</u>-medium-5607960 5min conv 4K 6Mbps 15fps.mp4
192.174.90.102 5004 1 ${sleep_time:-3}↔
```

B. For using CPU filter/resize

functionKey: filter-resize-xxx-infer-main

userParams:

(1) ipAddress: 192.174.90.111/24

(2) inputPort: 15000

(3) outputIPAddress: 192.174.90.121 (4) outputPort: 16000 Destination port number

The own IP address. Set as the IP address of Pod 2nd NIC

own port number Destination IP address

C. For using copy branch

functionKey: copy-branch-main

userParams:

(1) ipAddress: 192.174.90.121/24 The own IP address. Set as the IP address of Pod 2nd NIC

(2) inputIPAddress: 192.174.90.121 The own IP address. Used to establish a TCP connection with the processing module in the previous stage (no subnet mask setting is required)

Specify filter-resize-high-infer-main for advanced inference and filter-resize-low-infer-main for lightweight inference as functionKey

(3) inputPort: 16000 own port number

(4) branchOutputIPAddress: 192.174.90.141,192.174.90.14. Specify destination IP addresses separated by commas

(5) branchOutputPort: 17000,18000 Specify destination port numbers separated by commas

Addendum for (2): Specify the same IP address as in (1) (Describe as the subnet mask is not required).

Addendum for (4): Comma-Separated IP Addresses for the Number of Destination Branches

Addendum for (5): Comma-Separated Port Numbers for the Number of Destination Branches

D. When to use GPU inference

functionKey: xxx-infer-main or infer-[n] If DataFlow has no copy branch, specify high-infer-main for advanced inference and low-infer-main for lightweight inference as functionKey

userParams: If DataFlow has copy branch, specify infer1 or infer2 as functionKey, depending on how many GPU inferences are in the branch.

(1) ipAddress: 192.174.90.141/24 The own IP address. Set as the IP address of Pod 2nd NIC

(2) inputIPAddress: 192.174.90.141 The own IP address. Used for GStreamer video processing commands (fpgpay) (no subnet mask setting required)

(3) inputPort: 16000 own port number

(4) outputIPAddress: 192.174.90.10 IP address of Video reception tool
 (5) outputPort: 2001 Video reception tool port number

Addendum for (2): Specify the same IP address as in (1) (Describe as the subnet mask is not required).

Addendum for (4): The IP address value specifies the IP address of the 100GNIC of the K8s Master used by the Video reception tool.

Execute the following command on the K8s Master to check the IP address.

```
$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
 inet 127.0.0.1/8 scope host lo
   valid_lft forever preferred_lft forever
  inet6::1/128 scope host
    valid Ift forever preferred Ift forever
2: ens1f0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
  link/ether b4:96:91:9d:79:80 brd ff:ff:ff:ff:ff
  inet 10.38.119.15/24 brd 10.38.119.255 scope global ens1f0
    valid Ift forever preferred Ift forever
  inet6 fe80::b696:91ff:fe9d:7980/64 scope link
    valid Ift forever preferred Ift forever
~ abbreviated ~
7: ens3f1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9000 qdisc mq state UP group default qlen 1000
  link/ether 0c:42:a1:6d:65:35 brd ff:ff:ff:ff:ff
  inet 192.174.90.10/24 brd 192.174.91.255 scope global ens3f1
    valid Ift forever preferred Ift forever
  inet6 fe80::e42:a1ff:fe6d:6535/64 scope link
    valid Ift forever preferred Ift forever
```

(5) The value of the port number indicates the port number specified in the video reception start procedure of the evaluation procedure. For a example of sample-demo: Specify 2001 or 2002.

The following is an excerpt from (1) (1-1) of section 1.3.2 of the "OpenKasugai-Demo"

- (1) Method for starting video reception←
 - (1-1) Deployment of video reception tool and creation of reception script↓ (advanced inference result reception ×2).

(Only perform the first time, Step (1-1) is unnecessary from the second time onward.) \vdash

```
#!/bin/bash -x & 

for i in `seq -w 100  

gst-launch-1.0 -e udpsrc buffer-size=21299100 mtu=8900  

gst-launch-1.0 -e udpsrc buffer-size=21299100 mtu=8900  

jort=20${i} !

'application/x-rtp, media=(string)video, clock-rate=(int)90000, encoding-
name=(string)RAW, sampling=(string)BGR, depth=(string)8, width=(string)1280,
height=(string)1280, payload=(int)96' ! rtpvrawdepay ! queue ! videoconvert !

'video/x-raw, format=(string)1420' ! openh264enc ! 'video/x-h264, stream-
format=byte-stream, profile=(string)high' ! perf name=stream${i} !
h264parse ! qtmux ! filesink location=/tmp/output_st${i}.mp4 sync=false >
/tmp/rcv_video_tool_st${i}.log & 

done

#! chmod +x start_test1.sh & 
# exit& 
# exit
```

E. When using Glue # 2 Processing modules not used by DataFlow described in YAML

functionKey: glue-fdma-to-tcp-main userParams:

(1) ipAddress: 192.174.90.131/24

(2) glueOutputIPAddress: 192.174.90.141

(3) glueOutputPort: 16000

The own IP address. Set as the IP address of Pod 2nd NIC

Destination IP address
Destination port number

F. For using FPGA Decode/FPGA filter/resize

No configuration required

B. Files that need to be edited from the supplied material

fixed region information

*For all regions used in the k8s cluster, the region type of each region must be specified.

predetermined-region.json	Description	Needs to be changed according to environment #	Remarks (such as what value to enter)
			Set on a per-region basis
{	Information for one region		
"nodeName": "worker0",	Node name of the node where the region is located	0	
"deviceUUID": "21330621T01J",	Identification information of the device on which the region resides	0	-FPGA: Use the results of the "ls/dev/*" command. The FPGAd device will be shown as "xpcie _\${FPGA-ID}". Enter the value of \${FPGA-ID}. -For GPU: Use the "nvidia-smi -L" command. Because UUID(Example: GPU-b8b4f1f5-bf51-eaa3-6ec4-97190b7f6c98) is output for each device, Describe its value. -For CPU: Describe "0" (Currently, each server is regarded as one virtual server, so a fixed value is acceptable.)"
"subDeviceSpecRef": "0",	Region name of the region	0	-For FPGA: Describe "\${ ane number}" -For CPU/GPU: Describe the same value as deviceType
"regionType": "alveou250-0100001c-2lanes-0nics"	Region type of the region	0	-For FPGAs: Describe in the following format: ""\${device type}" + "-" + "\${parent bs -id}" + "-" + "\${number of lanes}" + "lanes" + "" + "\${number of NICs}" + "nics"" -When using FPGA circuit (describe in section 0.4 of the OpenKasugai-Controller-InstallManual) provided as a sample, device type ="alveou250," parent bs -id="0100001c," number of lanes ="2," and number of NICs ="0" are fixed, so the regionType is always "alveou250-0100001c-2lanes-0nics." -For CPU/GPU: Describe the same value as deviceType
},			
{	Information for one region		
"nodeName": "worker0",		0	
"deviceUUID": "21330621T01J",		0	
"subDeviceSpecRef": "1",		0	
"regionType": "alveou250-0100001c-2lanes-0nics"		0	
},			
{	Information for one region		
"nodeName": "worker1",		0	
"deviceUUID": "21330621T00Y",		0	
"subDeviceSpecRef": "0",		0	
"regionType": "alveou250-0100001c-2lanes-0nics"		0	
},			
{	Information for one region		
"nodeName": "worker1",		0	
"deviceUUID": "21330621T00Y",		0	
"subDeviceSpecRef": "1",		0	
"regionType": "alveou250-0100001c-2lanes-0nics"		0	
},			
{	Information for one region		
"nodeName": "worker1",		0	
"deviceUUID": "gpu-702fb653-43a4-732d-6bc4-7b3487696c90"		0	
"subDeviceSpecRef": "a100",		0	
"regionType": "a100"		0	GPU/CPU region type value is equivalent to device type (deviceType)
}			
1			

A. Files that can be used across all DF systems (no need to modify them to suit your environment)

Device Type Mapping Information

Mapping information to convert from model name to DeviceType of auto-acquired device.

*The following six types of devices (Alveo U250, NVIDIA GPU T4, NVIDIA GPU A100, Intel(R) Xeon(R) Gold 6346 CPU @ 3.10 GHz, Intel(R) Xeon(R) Gold 6348 CPU @ 2.60 GHz, Intel(R) Xeon(R) Gold 6330 CPU @ 2.00 GHz) are Describe in the sample data. Additional notes are required for other devices.

devicetypemap.json	Description	Remarks
[{	Information for one device	
"inputDeviceType": "ALVEO U250 PQ",	Device information that can be obtained from the infrastructure	Setting the value obtained by running "Automatic Collection & CM Creation Tool Pre-Office Check Tool (DeviceInfoCheck.sh)"
"outputDeviceType": "alveou250"	DeviceType corresponding to the above device	"Alveo series" is "alveo."

},{	Information for one device	
"inputDeviceType": "Tesla T4",		Setting the value obtained by running "Automatic Collection & CM Creation Tool Pre-Office Check Tool (DeviceInfoCheck.sh)"
"outputDeviceType": "t4"		"Tesla T4" is "t4"
},{	Information for one device	
"inputDeviceType": "NVIDIA A100 80GB PCIe",		Setting the value obtained by running "Automatic Collection & CM Creation Tool Pre-Office Check Tool (DeviceInfoCheck.sh)"
"outputDeviceType": "a100"		"NVIDIA A100 80GB PCIe" is "a100"
},{	Information for one device	
"inputDeviceType": "Intel(R) Xeon(R) Gold 6346 CPU @ 3.10GHz",		Check grep model.name/proc/cpuinfo sort -u results and configure
"outputDeviceType": "cpu"		"Intel (R) Xeon (R) Gold 6346 CPU @ 3.10GHz" = "cpu"
},{	Information for one device	
"inputDeviceType": "Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz",		Check grep model.name/proc/cpuinfo sort -u results and configure
"outputDeviceType": "cpu"		"Intel (R) Xeon (R) Gold 6348 CPU @ 2.60GHz" = "cpu"
}.{	Information for one device	
"inputDeviceType": "Intel(R) Xeon(R) Gold 6330 CPU @ 2.00GHz",		Check grep model.name/proc/cpuinfo sort -u results and configure
"outputDeviceType": "cpu"		"Intel (R) Xeon (R) Gold 6330 CPU @ 2.00GHz" = "cpu"
}]		

Region-specific information

Describe performance (deployment capacity and maximum processing capacity) for each region.

- •In the case of FPGA, the performance of the region is assumed to vary depending on the device type (device model) and the child bitstream to be written, so it is necessary to describe the device type used × child bitstream. Since the CPU/GPU region is assumed to change only by the type of device at present, it is necessary to describe the type of device used.
- ·The following six types of regions are described in the sample data. If other regions are used, additional information is required.
- ·For FPGA, one type of region is described. Specifically, the Alveo U250 contains bitstreams for filter/resize.
- ·Two types of GPU regions are described. Specifically, regions for two types of devices (NVIDIA GPU T4, NVIDIA GPU A100) are described.
- ·Three CPU regions are described. Specifically, this region covers 3 devices: Intel (R) Xeon (R) Gold 6346 CPU @ 3.10 GHz, Intel (R) Xeon (R) Gold 6348 CPU @ 2.60 GHz, and Intel (R) Xeon (R) Gold 6330 CPU @ 2.00 GHz.

region-unique-info.json	Description	Remarks
[{	Region information for one device	The region where filter/resize child bitstream is written to the Alveo U250
"subDeviceSpecRef": "0100001c",	Id of the object to write to the device	For FPGA, the Id of the child bitstream to be written to the device (here, the Id of the bitstream for filter/resize).
"functionTargets":[{	Describe only the number of regions that would be created if this object was written	lane0 min
"regionName": "lane0",	Region name of the region (unique within the device)	"lane0" or "lane1" when using the sample child bitstream (filter/resize child bitstream)
"regionType": "alveou250-0100001c-2lanes-0nics",	Region type of the region	FPGA region type values are in the following format: ""\${device type}" + "-" + "\${parent bs -id}" + "-" + "\${number of lanes}" + "lanes" + "-" + "\${number of NICs}" + "nics""
"maxFunctions": 1,	Capacity to deploy Function (Circuit/Pod) in this region	Maximum number of Functions (circuits/Pod) that can be installed in the region
"maxCapacity": 40	Maximum processing capacity of the region	Units are fps. Values are provisional.
},{		lane1 min
"regionName": "lane1",		
"regionType": "alveou250-0100001c-2lanes-0nics",		
"maxFunctions": 1,		
"maxCapacity": 40		
}]		
},{	Region information for one device	Region for NVIDIA GPU T4
"subDeviceSpecRef": "Tesla T4",	Id of the object to write to the device	For GPU and CPU, describe the device type (device model) name.
"functionTargets":[{	Describe only the number of regions that would be created if this object was written	One GPU per device (one entire device)
"regionName": "t4",		"Tesla T4" is "t4"
"regionType": "t4",		The same value as the device type (deviceType) for CPU and GPU.
"maxFunctions": 110,		Maximum number of Functions (circuits/Pod) that can be installed in this region. Values are provisional.
"maxCapacity": 40		Units are fps. Values are provisional.
}]		
},{	Region information for one device	Space for NVIDIA GPU A100
"subDeviceSpecRef": "NVIDIA A100 80GB PCIe",	Id of the object to write to the device	For GPU and CPU, describe the device type (device model) name.
"functionTargets":[{	Describe only the number of regions that would be created if this object was written	One GPU per device (one entire device)
"regionName": "a100",		"NVIDIA A100 80GB PCIe" is "a100"
"regionType": "a100",		The same value as the device type (deviceType) for CPU and GPU.
"maxFunctions": 110,		Maximum number of Functions (circuits/Pod) that can be installed in this region. Values are provisional.

	_	
"maxCapacity": 120		Units are fps. Values are provisional.
}]		
},{	Region information for one device	Space for Intel (R) Xeon (R) Gold 6346 CPU @ 3.10 GHz
"subDeviceSpecRef": "Intel(R) Xeon(R) Gold 6346 CPU @ 3.10GHz",	Id of the object to write to the device	For GPU and CPU, describe the device type (device model) name.
"functionTargets":[{	Describe only the number of regions that would be created if this object was written	One CPU per device (one region for the entire device)
"regionName": "cpu",		CPU is determined by "cpu"
"regionType": "cpu",		The same value as the device type (deviceType) for CPU and GPU.
"maxFunctions": 110,		Maximum number of Functions (circuits/Pod) that can be installed in this region. Values are provisional.
"maxCapacity": 120		Units are fps. Values are provisional.
}]		
},{	Region information for one device	Space for Intel (R) Xeon (R) Gold 6348 CPU @ 2.60 GHz
"subDeviceSpecRef": "Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz",	Id of the object to write to the device	For GPU and CPU, describe the device type (device model) name.
"functionTargets":[{	Describe only the number of regions that would be created if this object was written	One CPU per device (one region for the entire device)
"regionName": "cpu",		CPU is determined by "cpu"
"regionType": "cpu",		The same value as the device type (deviceType) for CPU and GPU.
"maxFunctions": 110,		Maximum number of Functions (circuits/Pod) that can be installed in this region. Values are provisional.
"maxCapacity": 120		Units are fps. Values are provisional.
}]		
},{	Region information for one device	Space for Intel (R) Xeon (R) Gold 6330 CPU @ 2.00 GHz
"subDeviceSpecRef": "Intel(R) Xeon(R) Gold 6330 CPU @ 2.00GHz",	Id of the object to write to the device	For GPU and CPU, describe the device type (device model) name.
"functionTargets":[{	Describe only the number of regions that would be created if this object was written	One CPU per device (one region for the entire device)
"regionName": "cpu",		CPU is determined by "cpu"
"regionType": "cpu",		The same value as the device type (deviceType) for CPU and GPU.
"maxFunctions": 110,		Maximum number of Functions (circuits/Pod) that can be installed in this region. Values are provisional.
"maxCapacity": 120		Units are fps. Values are provisional.
}]		
}]		

Information for identifying the FunctionType

Describe entries for the number of DeviceKind to be used

*The sample data describes four device types (alveou250, t4, a100, cpu). If other device types are used, the information for the additional device type must be added to the device type mapping information, and the information for the additional device type must be added to this information.

Additional space information for additional devices is required. Please refer to the remarks column for how to add additional information.

functionkindmap.json	Description	Remarks
[{	Information for one type of Function type CR	Information for FPGAFunction
"deviceType": "alveou250",	key: string of DeviceType in WBFunc	Applicable DeviceType
"functionCRKind":"FPGAFunction"	value: Function CR type	If deviceType="alveou250," it is FPGA, so it is "FPGAFunction."
},{	Information for one type of Function type CR	Information for GPUFunction
"deviceType": "t4",		Applicable DeviceType (for NVIDIA GPU T4).
"functionCRKind":"GPUFunction"		If deviceType="t4," it is GPU, so it is "GPUFunction."
},{	Information for one type of Function type CR	Information for GPUFunction
"deviceType": "a100",		Applicable DeviceType (for NVIDIA GPU A 100).
"functionCRKind":"GPUFunction"		If deviceType="a100," it's a GPU, so it's "GPUFunction."
}.{	Information for one type of Function type CR	Information for CPUFunction
"deviceType": "cpu",		Applicable DeviceType (for various cpu).
"functionCRKind":"CPUFunction"		If deviceType="cpu," it is CPU, so it is "CPUFunction."
}]		

Support information for specifying ConnectionType

Enter as many types of connections as you want to use.

*The sample data shows two types of connection (PCIe connection via shared memory and Ethernet connection). Additional information is required when using other connection types.

The sample data shows two types of connection (FCIe connection via shared memory and Ethernet connection). Additional information is required when daily other connection types.		
connectionkindmap.json Description		Remarks
[{	Information for one type of Connection CR Information for PCIeConnection	
"connectionMethod": "host-mem",	key — String of connectionMethod in WBConnection	ConnectionMethod for PCIe connection over shared memory
"connectionCRKind": "PCIeConnection"	value: Type of the Connection CR	If connectionMethod="host-mem," it is a PCIe connection, so it is "PCIeConnection."
},{	Information for one type of Connection CR	Information for EthernetConnection

"connectionMethod": "host-100gether",	ConnectionMethod for Ethernet connection
"connectionCRKind": "EthernetConnection"	If connectionMethod="host-100gether," it is an Ether connection, so it is fixed as "EthernetConnection."
}]	

Function Specific Information - Common Attributes

*Enter each function type of FPGA. *GPU functions do not need to be described at present (the direction to be described may change in the future).

*Only "filter-resize" is described in the sample data. Additional information is required when adding other FPGA functions. It is also necessary to update existing functions when performance values change.

function-unique-info.json	Description	Remarks
[{	Information for 1Function	Information for filter/resize Function
"functionID" : 0,	Identifier of the Function (circuit/container image)	The value can be empty because it is not currently used.
"functionName" : "filter-resize",	such Function name	
	Maximum number of DF (WBFunc) that can be deployed to the function	In the case of FPGA circuit, the number of FunctionChannel IDs that can be provided simultaneously is indicated.
"maxCapacity": 40	Maximum processing power of the Function	
}]		

Function-specific - filter/resize only attribute

*The FunctionChannelIDList contains as many entries as the number of FunctionChannelIDs provided by all filter/resize functions (2 functions per FPGA device) written in the filter/resize (F/R) bitstream.

*For "Rx" and "Tx," values must be defined for each possible source or destination connection type.

filter-resize-childbs.json		Remarks
{	Resource information for one lane of filter/resize bitstream	
"functionKernels":[{	Resource pool information prepared for one Function deployed on one lane	Only one Function per lane for filter/resize bitstream
"partitionName": "0",	Id of the Function	In the case of filter/resize, there is one Function per lane, so the value here is the Id of the lane (0 or 1).
"functionChannelIDList": [0,1,2,3,4,5,6,7],	List of FunctionChannelIDs provided by the function	Describe all FunctionChannel IDs provided by the Function. In the case of filter/resize, [0,1, 2, 3, 4, 5, 6, 7] can be fixed.
"functionChannelIDs":[{	Resource information for 1FunctionChannelID	Resource information provided for each FunctionChannelID assigned to each FPGAFunction.
"functionChannelID": 0,	The target FunctionChannelID	This is the value in functionChannelIDList above.
"rx":{	Receiving resource group provided for the FunctionChannelID	
"protocol":{	Describe for each protocol that can be communicated	
"TCP":{	Resource group to allocate when TCP is used as the protocol for communication with the source	
"port": 12300	Port number used to communicate with the source	
},		
"DMA":{	Resource group to allocate when the source communication protocol is DMA	
"port": 12300,	Port number used to communicate with the	
"lldmaConnectorID": 0,	Connector Id of LLDMA used for DMA communication with the source	
"dmaChannelID": 0	Channel Id of the DMA used to communicate with the source	
}		
}		
},		
"tx":{	Transmission resources provided for the above FunctionChannelID	
"protocol":{	Describe for each protocol that can be communicated	
"TCP":{	Resource group to allocate when TCP is used as the protocol for communication with the destination	
"port": 12300	Port number used to communicate with the destination	
},		
"DMA":{	Resource group to allocate when the protocol for communication with the destination is DMA	
"port": 12300,	Port number used to communicate with the destination	
"lldmaConnectorID": 0,	Connector Id of LLDMA used for DMA communication with destination	

"dmaChannelID": 0	Channel Id of the DMA to be used for DMA	
diffactionificials . 0	communication with the destination	
}		
}		
}		
},{	Resource information for 1FunctionChannelID	
"functionChannelID": 1,	The target FunctionChannelID	
"rx":{	Receiving resource group provided for the	
); x1	FunctionChannelID	
•••		
},		
"tx":{	Transmission resource group provided for the	
ιx : ξ	FunctionChannelID	
•••		
}		
},		
•••		
}]		
},{	Resource pool information prepared for one Function	Only one Function per lane for filter/resize bitstream
M	deployed on one lane	Only one runction per lane for interpresize bitstream
"partitionName": "1",		

},		
]		
}		
[2	U	l

Filter size function name identification correspondence information

*Mapping information for the FPGA to determine if filter/resize is for advanced or lightweight inference. Since it is determined by the value of the setting parameter (output frame size) to the FPGA, the setting parameter value and the corresponding inference type are described.

functionnamemap.json	Description	Remarks
{		
"sizeList":[{	Information for advanced inference filter/resize	for advanced inference
"height": 1280,	Size of the output frame height of the advanced inference filter/resize	Fixed value
"width": 1280,	Size of the output frame width of the advanced inference filter/resize	Fixed value
"functionName":"-high-infer"	String for the name of WBFunction corresponding to filter/resize for advanced inference	Fixed value
},{	Information for the lightweight inference filter/resize	for lightweight inference
"height": 416,	Size of output frame height of lightweight inference filter/resize	Fixed value
"width": 416,	Size of output frame width of lightweight inference filter/resize	Fixed value
"functionName":"-low-infer"	String to name WBFunction corresponding to Lightweight Inference filter/resize	Fixed value
}]		
}		

Mapping information between information by type and file names
*Information used internally by Automatic Collection & CM creation function to connect various types of information with their filenames.

premadefilelist.json	Description	Remarks
{		
"region-unique-info" : "region-unique-info.json",	"Region-specific information " and its filename	Fixed value
"tunction-unique-into" · "tunction-unique-into ison"	"Function-specific information-common attribute" and its file name	Fixed value
	"Function-specific information-only attribute (for filter/resize)" and its file name	Fixed value
}		

The following configuration information files do not need to be changed according to the environment and can be used as they are.

Configuration information for GPUFunc

*Two types of configuration information are prepared: for advanced inference (gpufunc-config-high-infer.json) and for lightweight inference (gpufunc-config-low-infer.json). If you want to use an GPUFunction other than these, you need to create one.

Configuration information of the inference processing module for GPUFunction (performs advanced inference)

gpufunc-config-high-infer.json	Description	Remarks (No basic change is required for any value)
	Setting information for DMA communication on the input side and	
{	RTP communication on the output side	
"rxProtocol": "DMA",	Protocol on the input side	
"txProtocol":"RTP",	protocol on the output side	
"sharedMemoryMiB": 256,	Allocated size in HugePage used for PCIe connection [MegaByte]	Size to be reserved must be a power of 2
"imageURI": "localhost/localhost/gpu_infer_dma:1.1.0",	Container image name of the container to use	Container image name of the inference processing module for GPUFunc that performs advanced inference. The number in the tag is the version number (no basic changes required).
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	
"envs":{	Environment variables set for the container to be used	Environment variable required for container execution of the inference processing module for GPUFunc that performs advanced inference, set in spec.containers [i] .env under the pod template
"CUDA_MPS_PIPE_DIRECTORY": "/tmp/nvidia-mps",	Full path of the directory for intercommunication between MPS functions	
"CUDA MPS LOG DIRECTORY": "/tmp/nvidia-mps",	Full path to the directory for MPS logging.	
	Information to control how the app is launched (shared memory	Set "0" for the primary mode that is managed by the inference app alone, and set "1" for the secondary mode that is
"SHMEM_SECONDARY": "1",	management mode) in the DPDK used for PCIe connections.	managed in conjunction with the PCIe controller. Set basic "1."
"HEIGHT": "1280",	Frame size (height) of the input video.	Advanced inference, so 1280.
"WIDTH": "1280"	Input frame size (width) of the input video.	Advanced inference, so 1280.
},		
"template":{	Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "gfunc-hi-1",		There is only one container to start, so it can be fixed.
"workingDir": "/opt/nvidia/deepstream/deepstream-7.0",	Container working directory	The value is "/opt/nvidia/deepstream/deepstream-X.Y". " X.Y "is the version number of deepstream to use (no basic changes required)
"command": ["sh," "-c"],		The actual execution command is specified by "args."
"args":["cd /opt/DeepStream-Yolo && gst-launch-1.0 -ev fpgasrc !", "video/x-raw,format=(string)BGR,%WIDTH%,%HEIGHT%"', "! nvvideoconvert! 'video/x-raw(memory:NVMM), format=(string)RGBA", "! m.sink_0 nvstreammux name=m nvbuf-memory-type=0 batch- size=1", "%WIDTH%", "%HEIGHT%", "! queue! nvinfer config-file- path=./config_infer_primary_voloV4_p6_th020_040.txt batch-size=1", "model-engine-file=/model_b1_gpu0_fp16.engine! queue! nvdsosd process-mode=1! nvvideoconvert!", "video/x-raw, format=(string)BGR'! videoconvert! queue! perf! rtpvrawpay! udpsink", "%GUITPITTP%". "securityContext":{	Arguments to be passed when executing the command	Executing commands and arguments for the Gstremer plug-in for lightweight inference of advanced processing modules running in containers
		Value is fixed by Hansell
"privileged": true		Value is fixed to "true"
"lifequelo": [Define cettings (handlers) for lifewale healts	
"lifecycle":{	Define settings (handlers) for lifecycle hooks The hook just before the container exits. Define what to do just	
"preStop":{	before exiting the container	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -KILL \$(pidof gst-launch-1.0)"]}}},	Pod stop command	Command line fixed at ""sh," "-c," "kill-KILL \$(pidof gst-launch-1.0)""
"volumeMounts":[{ "name": "hugepage-1gi",	VolumeMount for the/dev/hugepages directory used by the	There is only one container to start, so it can be fixed.
"mountPath": "/dev/hugepages"	ingress PCIe connection	Value is fixed to "/dev/hugepages"
Thountrain . /dev/hugepages		value is fixed to /dev/filugepages
"name": "host-nvidia-mps",	For MPS. VolumeMount for directories to communicate between MPS functions	

II 10 11 II II 1 1 1 II		L C L L L L L L L L L L L L L L L L L L
"mountPath": "/tmp/nvidia-mps"		Same value as environment variable "CUDA_MPS_PIPE_DIRECTORY"
J/A	VolumeMount for the directory used by the DPDK used by the	
"name": "dpdk",	ingress PCIe connection	
"mountPath": "/var/run/dpdk"	ingress referential	Value is fixed as "var-run-dpdk"
3]		Value to time do Value apare
"resources":{		
"requests":{		
· · · · · · · · · · · · · · · · · · ·		For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you mus
"memory": "32Gi"		request at least one CPU or memory."
•		As the value can be arbitrary, it is good to fix "32Gi."
},		
"limits":{		
"hugepages-1Gi": "1Gi"		Value is fixed to "1Gi"
}		
}		
}],		
"volumes":[{		
"name": "hugepage-1gi",	Volume for the/dev/hugepages directory used by the ingress PCIe connection	Same value as above volumeMounts. "hugepage-1gi"
"hostPath":		
{"path": "/dev/hugepages"}		Same value as "mountPath" in volumeMounts. "hugepage-1gi" above
},{		
-	For MPS. Volume for directories to communicate between MPS	Construction and the Market Wash and the second of the sec
"name": "host-nvidia-mps",	functions	Same value as volumeMounts. "host-nvidia-mps" above
"hostPath":		
{"path": "/tmp/nvidia-mps"}		Same value as "mountPath" in volumeMounts. "host-nvidia-mps" above
},{		
"name": "dpdk",	Volume for the directory used by the DPDK used by the ingress PCIe connection	Same value as volumeMounts. "dpdk" above
"hostPath":		
{"path": "/var/run/dpdk"}		Same value as "mountPath" in volumeMounts. "dpdk" above
}],		
"hostNetwork": false,		At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		
"restartPolicy": "Always"		
"shareProcessNamespace": true	Setting whether to enable sharing of process namespaces between	Value is fixed to "true"
Sharet rocessive mespace i crae	containers in a Pod	
}		
}		
},	0 11 1 6 11 6 700 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
{	Setting information for TCP communication on the input side and RTP	
II D . III IITODII	communication on the output side	
"rxProtocol": "TCP", "txProtocol": "RTP",	Protocol on the input side	
CAPTOLOCOL : KIP ,	protocol on the output side	Container image name of the inference processing module for GPUFunc that performs advanced inference. The number
"imageURI": "localhost/gpu_infer_tcp:1.1.0",	Container image name of the container to use	in the tag is the version number (no basic changes required).
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	
		Environment variable required for container execution of the inference processing module for GPUFunc that performs
"envs":{	Environment variables set for the container to be used	advanced inference, set in spec.containers [i] .env under the pod template
"CUDA_MPS_PIPE_DIRECTORY": "/tmp/nvidia-mps",	Full path of the directory for intercommunication between MPS	percentance (1) for and are percentance
"CUDA MPS LOG DIRECTORY": "/tmp/nvidia-mps",	functions Full path to the directory for MPS legging	
	Full path to the directory for MPS logging.	
"GST_PLUGIN_PATH": "/opt/nvidia/deepstream/deepstream-7.0/sample-	The directory containing the Gstreamer plugin in the container.	
functions/functions/gpu_infer_tcp_plugins/fpga_depayloader", "HEIGHT": "1280",	Frame size (height) of the input video.	Advanced inference, so 1280.
"WIDTH": "1280"	Input frame size (width) of the input video.	Advanced inference, so 1280. Advanced inference, so 1280.
}	input name size (main) or the input video.	The same and a few parts and a
"template":{		
"apiVersion": "v1",		<u> </u>
"kind": "Pod",		
"spec":{		İ
apara ik		
"containers":[{	Configuration Information for Containers Launched in Pod	

"workingDir": "/opt/nvidia/deepstream/deepstream-7.0",	Container working directory	The value is "/opt/nvidia/deepstream/deepstream-X.Y". " X.Y "is the version number of deepstream to use (no basic changes required)
"command": ["sh," "-c"],		The actual execution command is specified by "args."
"args":["cd /opt/DeepStream-Yolo && gst-launch-1.0 -ev fpgadepay", "%INPUTIP9", "%INPUTIP9R", "! 'video/x-raw,format=(string)BGR,%WIDTH%,%HEIGHT%", "! nvvideoconvert! 'video/x-raw(memory:NVMM), format=(string)RGBA", "! m.sink_0 nvstreammux name=m nvbuf-memory-type=0 batch-size=1", "%WIDTH%", "%WIDTH%", "! queue! nvinfer config-file- path=./config_infer_primary_yoloV4_p6_th020_040.txt batch-size=1", "model-engine-file=./model_b1_gpu0_fp16.engine! queue! nvdsosd process-mode=1! nvvideoconvert!", "video/x-raw, format=(string)BGR'! videoconvert! queue! perf! rtpvrawpay! udpsink", "%OUTPUTIP9", "%OUTPUTPORTW",	Arguments to be passed when executing the command	Executing commands and arguments for the Gstremer plug-in for lightweight inference of advanced processing modules running in containers
"sync=true"1.		
"securityContext":{		
"privileged": true		
},		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just before exiting the container	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -KILL \$(pidof gst-launch-1.0)"]}}},	Pod stop command	Command line fixed at ""sh," "-c," "kill-KILL \$(pidof gst-launch-1.0)""
"volumeMounts":[{		
"name": "host-nvidia-mps",	For MPS. VolumeMount for directories to communicate between MPS functions	
"mountPath": "/tmp/nvidia-mps"		Same value as environment variable "CUDA_MPS_PIPE_DIRECTORY"
}]		
}],		
"volumes":[{		
"name": "host-nvidia-mps",	For MPS. Volume for directories to communicate between MPS functions	Same as volumeMounts. "host-nvidia-mps" above
"hostPath":		
{"path": "/tmp/nvidia-mps"}		Same value as "mountPath" in volumeMounts. "host-nvidia-mps" above
}],		
"hostNetwork": false,		At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		
"restartPolicy": "Always"		
"shareProcessNamespace": true	Setting whether to enable sharing of process namespaces between containers in a Pod	Value is fixed to "true"
}		
}		

Configuration information of the inference processing module for GPUFunction (to implement lightweight inference)

gpufunc-config-low-infer.json	Description	Remarks (No basic change is required for any value)
F.(Setting information for DMA communication on the input side and	
R	RTP communication on the output side	
"rxProtocol": "DMA",	Protocol on the input side	
"txProtocol":"RTP",	protocol on the output side	
"sharedMemoryMiB": 256,	Allocated size in HugePage used for PCIe connection [MegaByte]	Size to be reserved must be a power of 2
"imageURI": "localhost/gpu infer dma:1.1.0",		Container image name of the inference processing module for GPUFunc that performs lightweight inference. The number
imageURI: localnost/gpu_inier_dma:1.1.0 ,		in the tag is the version number (no basic changes required).
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	Since only "sriov" is assumed at present, the setting value is fixed to "sriov."
"envs":{	Environment variables set for the container to be used	Environment variable required for container execution of inference processing module for GPUFunc that performs
	Environment variables set for the container to be used	lightweight inference, set in spec.containers [i] .env under pod template
"CUDA_MPS_PIPE_DIRECTORY": "/tmp/nvidia-mps",	Full path of the directory for intercommunication between MPS	
	functions	
"CUDA MPS LOG DIRECTORY": "/tmp/nvidia-mps",	Full path to the directory for MPS logging.	

Service Control of the Control of th		T	
Comment Comm	"SHMEM SECONDARY": "1",	Information to control how the app is launched (shared memory	Set "0" for the primary mode that is managed by the inference app alone, and set "1" for the secondary mode that is
Segment 1907 Se	·		
New York Not provided and in cross Port Service and in cross			
Spations (1-17) Words (1-17)	"WIDTH": "416"	Input frame size (width) of the input video.	416 for lightweight inference
Spations (1-17) Words (1-17)	}, "- 1 - " 6		
Secretary (1617-17) Secret		Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
Specifications of the content of the			
Southers 251 (1997) "manners' splanners' performance of the processor of the common of the processor of the			
"There is only one container to safe, so it on any final or "Container" virther controlled in the container to safe, so it on any final or "Container" virther controlled in the container to be used. **Container virther controlled in the container to be used. **Container virther controlled in the container to be used. **Container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **In container virther controlled in the container to be used. **Applied to be possed when executing the command. **Applied to be possed to be the co			
Control The Vision The Vi		Configuration Information for Containers Launched in Pod	
Command The Command	"name": "grunc-n02-10-1",		
Formation of the continue to be second in the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second contribution of the container to be seed The second container to be seed The second container to be seed to the container to be seed The second container to be seed The second container to be seed to the container to be seed The second container to be seed to the container to be seed The second container to be seed to the container to be seed The second container to be seed to the container to be seed The second container to be seed to the container to be seed The second container to be seed to the container to be seed The second container to be seed to the container to be seed The second container to be seed to the second in the container to be seed The second container to the second in the container to be seed The second container to the second in the container to be seed The second container to the second in the container to be seed The second container to the second in the container to be seed The second container to the second in the container to be seed The second container to the second in the container to be seed to the container to be seed to the container to depend on the second in the container to be seed to the container to depend on the second in the container to be seed to the container to depend on the second in the container to be seed to the second in the container to depend on the second in the	"workingDir": "/opt/nvidia/deepstream/deepstream-7.0",	Container working directory	
To a contract of the process of the			
7.0 / Source produce (company) (and so give fluid or the company) (and o		Command to be executed in the container to be used	The actual execution command is specified by "args."
"securityContext"; (7.0/sources/objectDetector_Yolo/ && gst-launch-1.0 -ev fpgasrc !", "'video/x-raw,format=(string)BGR,%WIDTH%,%HEIGHT%", "! nvvideoconvert! 'video/x-raw(memory:NVMM), format=(string)RGBA", "! m.sink_0 nvstreammux name=m nvbuf-memory-type=0 batch-size=1", "%WIDTH%", "%HEIGHT%", "! queue! nvinfer config-file- path=./config_infer_primary_yoloV3_tiny.txt", "batch-size=1 model-engine-file=./model_b1_gpu0_int8.engine! queue! nvvideoconvert!", "video/x-raw, format=(string)BGR'! videoconvert! queue! perf! rtpvrawpay! udpsink",	Arguments to be passed when executing the command	
"securityContext"; (
Simple S			
The hook just before the container exits. Define what to do just before the container exits. Define what to do just before the container exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before exiting the container exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just like it fixed as "hugepage-1gi" **Townstream** Thoughques** State of Put or memory.** **Townstream** Thoughques** State of Put or memory.** **Townstream** Thoughques** State on CPU or memory.** **Townstr	"privileged": true		Value is fixed to "true"
The hook just before the container exits. Define what to do just before the container exits. Define what to do just before the container exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before exiting the container exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just before the centainer exits. Define what to do just like it fixed as "hugepage-1gi" **Townstream** Thoughques** State of Put or memory.** **Townstream** Thoughques** State of Put or memory.** **Townstream** Thoughques** State on CPU or memory.** **Townstr	},		
PeckSpr: Alardier that executes the command when preStop	"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"exec":{	"nvoCton", f	The hook just before the container exits. Define what to do just	
"command: "[sh","-c", "kill-KILL s(pidof gst-launch-1.0)"]}}}, Pod stop command "volumeMount for the/dev/hugepages directory used by the nountPath": "/dev/hugepages"] "mountPath": "/dev/hugepages"] "mountPath": "/mountPath": "	prescop .(before exiting the container	
"volumeMounts": {			
"name": "hugepage-1gi",		Pod stop command	Command line fixed at ""sh," "-c," "kill-KILL \$(pidof gst-launch-1.0)""
momtPath*: "/dev/hugepage*:gr" "mountPath*: "/dev/hugepages" "mountPath*: "/mot-nvidia-mps",	"volumeMounts":[{		
Aname': "host-nvidia-mps", For MPS. VolumeMount for directories to communicate between MPS functions Same value as environment variable "CUDA MPS_PIPE_DIRECTORY"	"name": "hugepage-1gi",		Value is fixed as "hugepage-1gi"
"name": "host-nvidia-mps", For MPS, VolumeMount for directories to communicate between MPS functions For MPS, VolumeMount for directories to communicate between MPS functions Same value as environment variable "CUDA MPS PIPE DIRECTORY" VolumeMount for the directory used by the DPDK used by the Ingress PCIe connection Value is fixed as "var-run-dpdk" Value is fixed as "var-run-dpdk" **resources":{ "requests":{ "memory": "32Gi" "memory": "32Gi" **Iminits":{ "hugepages-1Gi": "1Gi" Page size of one hugepage Value is fixed to "1Gi" Page size of one hugepage Value is fixed to "1Gi" Value is fixed to "1Gi" Same value as above volumeMounts. "hugepage-1gi" Same value as above volumeMounts. "hugepage-1gi"	"mountPath": "/dev/hugepages"		Value is fixed to "/dev/hugepages"
mame: "nost-nota-mps", MPS functions "mountPath": "/tmp/nvidia-mps" "name": "dpdk", VolumeMount for the directory used by the DPDK used by the Ingress PCIe connection "mountPath": "/var/run/dpdk" "mountPath": "/var/run/dpdk" "resources":{ "resources":{ "requests":{ "memory": "32Gi" "memory": "32Gi" "ilmits":{ "hugepages-IGi": "IGi" Page size of one hugepage "volume for the/dev/hugepages directory used by the ingress PCIE connection "hostPath": "hostPath": "hostPath": "hostPath": "Same value as environment variable "CUDA MPS PIPE DIRECTORY" Value is fixed as "var-run-dpdk" Value is fixed as "var-run-dpdk" For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." Yalue is fixed to "IGi" Value is fixed to "IGi" Same value as above volumeMounts. "hugepage-1gi" Same value as above volumeMounts. "hugepage-1gi"	},{		
**NountPath*: "rapdk", SulumeS*: figure 1. Same value as above volumeMounts. "hugepage-1gi", **NoutPath*: "Avar/run/dpdk" **Volume for the directory used by the DPDK used by the ingress PCIe onnection **Value is fixed as "var-run-dpdk" **For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." **As the value can be arbitrary, it is good to fix "32Gi." **As the value can be arbitrary, it is good to fix "32Gi." **Yalue is fixed to "1Gi" **Yalue is fixed as "var-run-dpdk" **Yalue is fixed as "	"name": "host-nvidia-mps",		
"name": "dput", ingress PCIe connection "mountPath": "/var/run/dpdk" Value is fixed as "var-run-dpdk" "resources":{ "requests":{ "memory": "32Gi" For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." "hugepages-1G": "1Gi" Page size of one hugepage Value is fixed to "1Gi" "volumes":[{ "name": "hugepage-1gi",	"mountPath": "/tmp/nvidia-mps"		Same value as environment variable "CUDA MPS PIPE DIRECTORY"
"name": "dput", ingress PCIe connection "mountPath": "/var/run/dpdk" Value is fixed as "var-run-dpdk" "resources":{ "requests":{ "memory": "32Gi" For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." "hugepages-1G": "1Gi" Page size of one hugepage Value is fixed to "1Gi" "volumes":[{ "name": "hugepage-1gi",	},{		
"mountPath": "/var/run/dpdk" }	"name": "dpdk",		
Tresources":{ "requests":{ "requests":{ "requests":{ "remony": "32Gi" For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." "limits":{ "hugepages-1Gi": "1Gi" Page size of one hugepage Value is fixed to "1Gi" "hugepages-1Gi": "1Gi" Volume for the/dev/hugepages directory used by the ingress PCIe connection Same value as above volumeMounts. "hugepage-1gi"	"mountPath": "/var/run/dpdk"	4	Value is fixed as "var-run-dpdk"
"requests":{ "memory": "32Gi" "memory": "32Gi" "memory": "32Gi" "limits":{ "hugepages-1Gi": "1Gi" "by "volumes":[{ "name": "hugepage-1gi", "hostPath": "hostPath": "hostPath": "memory": "32Gi" For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." Value is fixed to "1Gi" Value is fixed to "1Gi" Value is fixed to "1Gi" Same value as above volumeMounts. "hugepage-1gi" Same value as above volumeMounts. "hugepage-1gi"	}],		
"requests":{ "memory": "32Gi" "memory": "32Gi" "memory": "32Gi" "limits":{ "hugepages-1Gi": "1Gi" "by "volumes":[{ "name": "hugepage-1gi", "hostPath": "hostPath": "hostPath": "memory": "32Gi" For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." As the value can be arbitrary, it is qood to fix "32Gi." Value is fixed to "1Gi" Value is fixed to "1Gi" Value is fixed to "1Gi" Same value as above volumeMounts. "hugepage-1gi" Same value as above volumeMounts. "hugepage-1gi"	"resources":{		
For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi." "limits":{ "hugepages-1Gi": "1Gi" Page size of one hugepage Value is fixed to "1Gi" } "volumes":{{ "volumes":{{ "name": "hugepage-1gi", "hostPath": Same value as above volumeMounts. "hugepage-1gi"			
Timits":{ "hugepages-1Gi": "1Gi" Page size of one hugepage Value is fixed to "1Gi" "hugepages-1Gi": "1Gi" Page size of one hugepage Value is fixed to "1Gi" "hugepages-1Gi": "1Gi" Value is fixed to "1Gi" Value is fixed to "1Gi" "hugepages-1Gi": "1Gi" Value is fixed to "1G	"memory": "32Gi"		
"hugepages-1Gi": "1Gi" Page size of one hugepage Value is fixed to "1Gi" Value is fixed to "1	},		
} } Connection Same value as above volumeMounts. "hugepage-1gi" "hostPath": Same value as above volumeMounts. "hugepage-1gi"	"limits":{		
} } Connection Same value as above volumeMounts. "hugepage-1gi" "hostPath": Same value as above volumeMounts. "hugepage-1gi"		Page size of one hugepage	Value is fixed to "1Gi"
"volumes":[{ "name": "hugepage-1gi", "hostPath": "NotIme for the/dev/hugepages directory used by the ingress PCIe connection "Same value as above volumeMounts. "hugepage-1gi"	}		
"volumes":[{ "name": "hugepage-1gi", "hostPath": "NotIme for the/dev/hugepages directory used by the ingress PCIe connection "Same value as above volumeMounts. "hugepage-1gi"	}		
"name": "hugepage-1gi", Volume for the/dev/hugepages directory used by the ingress PCIe connection Same value as above volumeMounts. "hugepage-1gi"	}],		
"name": "hugepage-1gi", Volume for the/dev/hugepages directory used by the ingress PCIe connection Same value as above volumeMounts. "hugepage-1gi"	"volumes":[{		
"hostPath":			Same value as above volumeMounts. "hugepage-1gi"
	"hostPath":		
	{"path": "/dev/hugepages"}		Same value as "mountPath" in volumeMounts. "hugepage-1gi" above

},{		
"name": "host-nvidia-mps",	For MPS. Volume for directories to communicate between MPS functions	Same value as volumeMounts. "host-nvidia-mps" above
"hostPath":		
{"path": "/tmp/nvidia-mps"}		Same value as "mountPath" in volumeMounts. "host-nvidia-mps" above
3.5		
"name": "dpdk",	Volume for the directory used by the DPDK used by the ingress PCIe connection	Same value as volumeMounts. "dpdk" above
"hostPath":		
{"path": "/var/run/dpdk"}		Same value as "mountPath" in volumeMounts. "dpdk" above
}],		
"hostNetwork": false,		At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		Value is fixed to "true"
"restartPolicy": "Always"		Value is "Always" fixed
"shareProcessNamespace": true	Setting whether to enable sharing of process namespaces between containers in a Pod	Value is fixed to "true"
}		
}		
},		
{	Setting information for TCP communication on the input side and RTP communication on the output side	
"rxProtocol": "TCP",	Protocol on the input side	
"txProtocol":"RTP",	protocol on the output side	
"imageURI": "localhost/gpu_infer_tcp:1.1.0",	Container image name of the container to use	Container image name of the inference processing module for GPUFunc that performs lightweight inference. The number in the tag is the version number (no basic changes required).
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	
"envs":{	Environment variables set for the container to be used	Environment variable required for container execution of inference processing module for GPUFunc that performs lightweight inference, set in spec.containers [i] .env under pod template
"CUDA_MPS_PIPE_DIRECTORY": "/tmp/nvidia-mps",	Full path of the directory for intercommunication between MPS functions	
"CUDA MPS LOG DIRECTORY": "/tmp/nvidia-mps",	Full path to the directory for MPS logging.	
"GST_PLUGIN_PATH": "/opt/nvidia/deepstream/deepstream-7.0/sample-		
functions/functions/gpu_infer_tcp_plugins/fpga_depayloader",	The directory containing the Gstreamer plugin in the container.	
"HEIGHT": "416".	Frame size (height) of the input video.	416 for lightweight inference
"WIDTH": "416"	Input frame size (width) of the input video.	416 for lightweight inference
},		
"template":{	Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "gfunc-n02-lo-1",		There is only one container to start, so it can be fixed.
"workingDir": "/opt/nvidia/deepstream/deepstream-7.0",	Container working directory	The value is "/opt/nvidia/deepstream/deepstream-X.Y". " X.Y "is the version number of deepstream to use (no basic changes required)
"command": ["sh," "-c"],	Command to be executed in the container to be used	The actual execution command is specified by "args."
"args":["cd /opt/nvidia/deepstream/deepstream- 7.0/sources/objectDetector_Yolo/ && gst-launch-1.0 -ev fpgadepay", "%INPUTPORT%", "! 'video/x-raw,format=(string)BGR,%WIDTH%,%HEIGHT%!", "! nvideoconvert! 'video/x-raw(memory:NVMM), format=(string)RGBA", "! m.sink. 0 nvstreammux name=m nvbuf-memory-type=0 batch-size=1", "%WIDTH%", "%HEIGHT%", "! queue! nvinfer config-file- path=./config_infer_primary_yoloV3_tiny.btt", "batch-size=1 model-engine-file=./model_b1_gpu0_int8.engine! queue! nvvideoconvert!", "video/x-raw, format=(string)BGR'! videoconvert! queue! perf! rtpvrawpay! udpsink", "%OUTPUTIP%",	Arguments to be passed when executing the command	Executing commands and arguments for the Gstremer plug-in for lightweight inference implementation of inference processing modules running in containers
"%OLITPLITPORT%" "securityContext":{		
securityContext :{ "privileged": true		
privileged : true		
1 1/	1	

"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
prestop .(before exiting the container	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -KILL \$(pidof gst-launch-1.0)"]}}},	Pod stop command	Command line fixed at ""sh," "-c," "kill-KILL \$(pidof gst-launch-1.0)""
"volumeMounts":[{		
"name": "host-nvidia-mps",	For MPS. VolumeMount for directories to communicate between MPS functions	
"mountPath": "/tmp/nvidia-mps"		Same value as environment variable "CUDA_MPS_PIPE_DIRECTORY"
}]		
}],		
"volumes":[{		
"name": "host-nvidia-mps",	For MPS. Volume for directories to communicate between MPS functions	Same as volumeMounts. "host-nvidia-mps" above
"hostPath":		
{"path": "/tmp/nvidia-mps"}		Same value as "mountPath" in volumeMounts. "host-nvidia-mps" above
}],		
"hostNetwork": false,		At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		Value is fixed to "true"
"restartPolicy": "Always"		Value is "Always" fixed
"shareProcessNamespace": true	Setting whether to enable sharing of process namespaces between containers in a Pod	Value is fixed to "true"
}		
}		
}]		

Configuration information for FPGAFunc

*There are two types of configuration information available, one for filter/resize (fpgafunc-config-filter-resize-high-infer.json) and the other for filter/resize (fpgafunc-config-filter-resize-low-infer.json). If you want to use an FPGAFunction other than these, you need to create one.

Separate configuration information is created for each value of the input parameter (as filter/resize is divided into two types, one for advanced inference and the other for lightweight inference). (Different input parameter values are assumed to define different FPGAFunction even in the same process.)

Configuration information for the FPGAFunc filter/resize processing module (performs processing for advanced inference)

pgafunc-config-filter-resize-high-infer.json	Description	Remarks (No basic change is required for any value)
"parentBitstream": {	Information about the parent Bitstream to use	
"file": "OpenKasugai-fpga-example-design-1.0.0-1.mcs",	File name of the parent Bitstream	
"id": "0100001c"	Bitstream ID of the parent Bitstream	
},		
"childBitstream": {	child Bitstream information to use	
"file": "OpenKasugai-fpga-example-design-1.0.0-2.bit",	Filename of child Bitstream	
"id": "0100001c"	Bitstream ID of the child Bitstream	
},		
"parameters": {	Environment variables set in child bs of the FPGA to be used	Parameters set in bitstream for filter/resize processing module for advanced inference
"functions": {	Name of the module to be set	In the case of filter/resize, you only need to set parameters for the processing module in the functions module.
"i_width": 3840,	Size of the width of the input frame	3840 for both altitude and light
"i_height": 2160,	Input frame height size	2140 for both altitude and light
"o_width": 1280,	Output frame width size	1280 for advanced inference
"o_height": 1280	Output Frame Height Size	1280 for advanced inference
}		
},		
"sharedMemoryMiB": 256,	Allocated size in HugePage used for PCIe connection [MegaByte]	The reserved size must be a power of 2. (Basic "256" is fine)
"functionDedicatedInfo": "filter-resize-ch"		
"functionName": "filter-resize-high-infer"	Name of the Function	"filter-resize-high-infer" for advanced

Configuration information of filter/resize processing module for FPGAFunc (performs processing for lightweight inference)

comigaration information of interfrence processing module for 11 of a line (performs processing for inglicities).		
fpgafunc-config-filter-resize-low-infer.json	Description	Remarks (No basic change is required for any value)
{		
"parentBitstream": {	Information about the parent Bitstream to use	
"file": "OpenKasugai-fpga-example-design-1.0.0-1.mcs",	File name of the parent Bitstream	
"id": "0100001c"	Bitstream ID of the parent Bitstream	
},		
"childBitstream": {	child Bitstream information to use	
"file": "OpenKasugai-fpga-example-design-1.0.0-2.bit",	Filename of child Bitstream	

"id": "0100001c"	Bitstream ID of the child Bitstream	
},		
"parameters": {	Environment variables set in child bs of the FPGA to be used	Parameters set in bitstream for filter/resize processing module for lightweight inference
"functions": {	Name of the module to be set	In the case of filter/resize, you only need to set parameters for the processing module in the functions module.
"i_width": 3840,	Size of the width of the input frame	3840 for both altitude and light
"i_height": 2160,	Input frame height size	2140 for both altitude and light
"o_width": 416,	Output frame width size	416 for lightweight inference
"o_height": 416	Output Frame Height Size	416 for lightweight inference
}		
},		
"sharedMemoryMiB": 256,	Allocated size in HugePage used for PCIe connection [MegaByte]	The reserved size must be a power of 2. (Basic "256" is fine)
"functionDedicatedInfo": "filter-resize-ch"		
"functionName": "filter-resize-low-infer"	Name of the Function	"filter-resize-low-infer" for lightweight

Configuration information for CPUFunc

*decoding (cpufunc-config-decode.json), filter/resize (cpufunc-config-filter-resize-high-infer.json) for advanced inference, filter/resize (cpufunc-config-filter-resize-low-infer.json) and copy branch (cpufunc-config-copy-branch.json) for lightweight inference, and

five types of configuration information for Glue (cpufunc-config-glue-fdma-to-tcp.json) are prepared. If you want to use an CPUFunction other than these, you need to create one. Separate configuration information is created for each value of the input parameter. (Because different input parameter values are assumed to define different CPUFunction.)

Configuration information of the decoding module for CPUFunction

cpufunc-config-decode.json		Remarks (No basic change is required for any value)
	Setting information for RTP communication on the input side and	
IX.	DMA communication on the output side	
"rxProtocol":"RTP",	Protocol on the input side	"RTP" fixed
"txProtocol":"DMA",	protocol on the output side	"DMA" fixed
"sharedMemoryMiB": 256,	Allocated size in HugePage used for PCIe connection [MegaByte]	The reserved size must be a power of 2. (Basic "256" is fine)
"imageURI": "localhost/cpu_decode:1.1.0",	Container image name of the container to use	The container image name of the decoding module for CPUFunc. The number in the tag is the version number (no basic changes required).
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	Since only "sriov" is assumed at present, the setting value is fixed to "sriov."
"envs":{	Environment variables set for the container to be used	Environment variable required for container execution of the decoding module for CPUFunc, set in spec.containers [i] .env under the pod template
"DECENV_APPLOG_LEVEL": "6",	Log level	The value does not need to be changed.
"DECENV_FRAME_WIDTH": "3840",	Input Video Frame Size (Width)	3840 fixed in the sample use case
"DECENV_FRAME_HEIGHT": "2160",	Frame size (height) of the input video	2160 fixed in the sample use case
"DECENV_VIDEO_CONNECT_LIMIT": "0",	Number of consecutive connections to the video source. The default value is 0, in which case it waits indefinitely.	The default value of "0" is acceptable.
"DECENV_VIDEOSRC_PROTOCOL": "RTP",	Protocol to receive	"RTP" fixed
"DECENV_OUTDST_PROTOCOL": "DMA"	Protocol to send	"DMA" fixed
},		
"template":{	Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "cfunc-1",		There is only one container to start, so it can be fixed.
"command": ["sh","-c"],	Command to be executed in the container to be used	The actual execution command is specified by "args."
"args":["./sample-functions/functions/cpu_decode/build/cpu_decode-	Arguments to be passed when executing the command	Command for executing the decoding processing module for CPUFunc in a container
"securityContext":{		
"privileged": true		Value is fixed to "true"
},		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -TERM \$(pidof cpu_decode-shared)"]}}},	Pod stop command	Command line fixed at ""sh","-c", "kill -TERM \$(pidof cpu_decode-shared)""
"volumeMounts":[{		
"name": "hugepage-1gi",	VolumeMount for the/dev/hugepages directory used by the ingress PCIe connection	Value is fixed as "hugepage-1gi"
"mountPath": "/dev/hugepages"		Value is fixed to "/dev/hugepages"
},{		
"name": "dpdk",	VolumeMount for the directory used by the DPDK used by the ingress PCIe connection	

"mountPath": "/var/run/dpdk"		Value is fixed as "var-run-dpdk"
}],		value is fixed as vali full dpuk
"resources":{		
"reguests":{		
requests 1		For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must
"memory": "32Gi"		request at least one CPU or memory."
		As the value can be arbitrary, it is good to fix "32Gi."
}		As the value can be arbitrary, less good to the Szon.
"limits":{		
"hugepages-1Gi": "1Gi"	Page size of one hugepage	Value is fixed to "1Gi"
}	rage size of one nagepage	Value to Time to Tel.
}		
31.		
"volumes":[{		
	Volume for the/dev/hugepages directory used by the ingress PCIe	
"name": "hugepage-1gi",	connection	Same value as above volumeMounts. "hugepage-1gi"
"hostPath":	connection	
{"path": "/dev/hugepages"}		Same value as "mountPath" in volumeMounts. "hugepage-1gi" above
} {		
Th.	Volume for the directory used by the DPDK used by the ingress	
"name": "dpdk",	PCIe connection	Same value as volumeMounts. "dpdk" above
"hostPath":	1 CIE COMMECCION	
{"path": "/var/run/dpdk"}		Same value as "mountPath" in volumeMounts. "dpdk" above
\$1		Same value as mount and in volume nounts, upok above
"hostNetwork": false,		At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		Value is fixed to "true"
"restartPolicy": "Always"		Value is "Always" fixed
1 restarti olicy . Always		value is Always fixed
}		
1		
Si .	Setting information for RTP communication on the input side and TCP	
}	communication on the output side	
"rxProtocol":"RTP",	Protocol of the receiver (RTP connection)	"RTP" fixed
"txProtocol":"TCP",	Protocol of the receiver (RTP connection) Protocol of the sender (Eth connection)	"TCP" fixed
EXPLOIDED : TCP ,	Protocor of the sender (Eth connection)	The container image name of the decoding module for CPUFunc. The number in the tag is the version number (no basic
"imageURI": "localhost/cpu_decode:1.1.0",	Container image name of the container to use	
"additionalNetwork": true,	Whether the function uses the 2nd NIC	changes required). Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	
virtualNetworkDeviceDriverType: Snov,	Driver for the virtual NW device used by the function on the 2nd Nic	Environment variable required for container execution of the decoding module for CPUFunc, set in spec.containers [i]
"envs":{	Environment variables set for the container to be used	
"DECENV APPLOG LEVEL": "6".	Landaud	.env under the pod template
	Log level	The value does not need to be changed.
"DECENV_FRAME_WIDTH": "3840", "DECENV_FRAME_HEIGHT": "2160",	Input Video Frame Size (Width)	3840 fixed in the sample use case
DECENV_FRAME_HEIGHT: 2160 ,	Frame size (height) of the input video	2160 fixed in the sample use case
"DECENV_VIDEO_CONNECT_LIMIT": "0",	Number of consecutive connections to the video source.	The default value of "0" is acceptable.
•	The default value is 0, in which case it waits indefinitely.	
"DECENV_VIDEOSRC_PROTOCOL": "RTP",	Protocol to receive	"RTP" fixed
"DECENV_OUTDST_PROTOCOL": "TCP"	Protocol to send	"TCP" fixed
<u>},</u>	18.1. 1. 1	
"template":{	Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "cfunc-1",		There is only one container to start, so it can be fixed.
"command": ["sh","-c"],	Command to be executed in the container to be used	The actual execution command is specified by "args."
"args":["./sample-functions/functions/cpu_decode/build/cpu_decode-	Arguments to be passed when executing the command	The contents are CPUFunc decoding execution commands (executable file path).
"securityContext":{		
"privileged": true		Value is fixed to "true"
}		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -TERM \$(pidof cpu_decode-shared)"]}}}	Pod stop command	Command line fixed at ""sh","-c", "kill -TERM \$(pidof cpu_decode-shared)""
	1	
}],		
}], "hostNetwork": false,	Configuring the Container Network to Use the Docker Host-Side Network Stack	At present, the value can be "false" because the use of 2nd NIC is assumed.

"hostIPC": true,	Value is fixed to "true"
"restartPolicy": "Always"	Value is "Always" fixed
}	
}	
}]	

Configuration information for CPUFunction for filter/resize processing module (performs processing for advanced inference)

cpufunc-config-filter-resize-high-infer.json	Description	Remarks (No basic change is required for any value)
	Configuration information for TCP communication with input and	Currently, both input and output are supported only for TCP communication, so there is only configuration information
1	output	for this case.
"rxProtocol":"TCP",	Protocol on the input side	"TCP" fixed
"txProtocol":"TCP",	protocol on the output side	"TCP" fixed
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	Since only "sriov" is assumed at present, the setting value is fixed to "sriov."
"imageURI": "localhost/cpu_filter_resize:1.1.0",	Container image name of the container to use	The container image name of the decoding module for CPUFunc. The number in the tag is the version number (no basic changes required).
"envs":{	Environment variables set for the container to be used	Environment variable required for executing the container of the inference processing module for CPUFunc that perform advanced inference, and set in spec.containers [i] .env under the pod template
"FRENV_APPLOG_LEVEL": "DEBUG",	Log level	The value does not need to be changed.
"FRENV INPUT WIDTH": "3840",	Input Video Frame Size (Width)	3840 fixed in the sample use case
"FRENV INPUT HEIGHT": "2160",	Frame size (height) of the input video	2160 fixed in the sample use case
"FRENV_OUTPUT_WIDTH": "1280",	Output Video Frame Size (Width)	Advanced inference, so 1280.
"FRENV OUTPUT HEIGHT": "1280"	Output Video Frame Size (Height)	Advanced inference, so 1280.
}.		
"template":{	Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "fr",	comparation in containers Educated in Fod	There is only one container to start, so it can be fixed.
"fr.py", "in_port=\$(FRENV_INPUT_PORT)", "out_addr=\$(FRENV_OUTPUT_IP)", "out_port=\$(FRENV_OUTPUT_PORT)", "in_width=\$(FRENV_INPUT_WIDTH)", "in_height=\$(FRENV_INPUT_HEIGHT)", "out_width=\$(FRENV_OUTPUT_WIDTH)", "out_height=\$(FRENV_OUTPUT_HEIGHT)", "-loglevel=\$(FRENV_APPLOG_LEVEL)"].	Command to be executed in the container to be used	Command to execute in container to implement filter/resize processing module for CPUFunc for advanced inference
"securityContext":{		
"privileged": true		Value is fixed to "true"
}		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -TERM \$(pidof python)"]}}}	Pod stop command	Command line fixed at ""sh","-c", "kill -TERM \$(pidof python)""
}],		
"hostNetwork": false,	Configuring the Container Network to Use the Docker Host-Side Network Stack	At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		Value is fixed to "true"
"restartPolicy": "Always"		Value is "Always" fixed
"shareProcessNamespace": true		Value is fixed to "true"
}		
}		
·1		

Configuration information for CPUFunction for filter/resize processing module (performs processing for lightweight inference)

to inguitation into include the interference processing instants (performs processing for inguitation)		
cpufunc-config-filter-resize-low-infer.json	Description	Remarks (No basic change is required for any value)
rr	Configuration information for TCP communication with input and	Currently, both input and output are supported only for TCP communication, so there is only configuration information
IX.	output	for this case.
"rxProtocol":"TCP",	Protocol on the input side	"TCP" fixed
"txProtocol":"TCP",	protocol on the output side	"TCP" fixed
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	Since only "sriov" is assumed at present, the setting value is fixed to "sriov."

"imageURI": "localhost/cpu_filter_resize:1.1.0",	Container image name of the container to use	The container image name of the decoding module for CPUFunc. The number in the tag is the version number (no basic changes required).
"envs":{	Environment variables set for the container to be used	Environment variable required for executing the container of the inference processing module for CPUFunc that performs advanced inference, and set in spec.containers [i] .env under the pod template
"FRENV_APPLOG_LEVEL": "DEBUG",	Log level	The value does not need to be changed.
"FRENV INPUT WIDTH": "3840",	Input Video Frame Size (Width)	3840 fixed in the sample use case
"FRENV INPUT HEIGHT": "2160",	Frame size (height) of the input video	2160 fixed in the sample use case
"FRENV OUTPUT WIDTH": "416",	Output Video Frame Size (Width)	Advanced inference, so 1280.
"FRENV OUTPUT HEIGHT": "416"	Output Video Frame Size (Height)	Advanced inference, so 1280.
},		
"template":{	Pod template data to create	The environment variables (env) to be set in the container are Described outside the template (envs above).
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "fr",	<u> </u>	There is only one container to start, so it can be fixed.
"command": ["python", "fr.py", "-in_port=\$(FRENV_INPUT_PORT)", "-out_addr=\$(FRENV_OUTPUT_IP)", "-out_port=\$(FRENV_OUTPUT_PORT)", "-in_width=\$(FRENV_INPUT_WIDTH)", "-in_height=\$(FRENV_INPUT_HEIGHT)", "-out_width=\$(FRENV_OUTPUT_WIDTH)", "-out_height=\$(FRENV_OUTPUT_HEIGHT)", "-loalevel=\$(FRENV_APPLOG_LEVEL)"1, "securityContext". "securityContext". "privileged": true	Command to be executed in the container to be used	Command to execute in container to implement filter/resize processing module for CPUFunc for lightweight inference Value is fixed to "true"
}		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -TERM \$(pidof python)"]}}}	Pod stop command	Command line fixed at ""sh","-c", "kill -TERM \$(pidof python)""
}],		
"hostNetwork": false,	Configuring the Container Network to Use the Docker Host-Side Network Stack	At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		Value is fixed to "true"
"restartPolicy": "Always"		Value is "Always" fixed
"shareProcessNamespace": true		Value is fixed to "true"
}		
}		
}]		

Configuration Information for CPUFunction for copy branch

Processing Module cpufunc-config-copy-branch.json Remarks (No basic change is required for any value) Description Configuration information for TCP communication with input and Currently, both input and output are supported only for TCP communication, so there is only configuration information output for this case. "rxProtocol":"TCP" Protocol on the input side "TCP" fixed "txProtocol":"TCP" "TCP" fixed protocol on the output side "additionalNetwork": true, Whether the function uses the 2nd NIC Currently, the value is fixed to "true" because 2nd NIC is assumed to be used. "virtualNetworkDeviceDriverType": "sriov", Driver for the virtual NW device used by the function on the 2nd NIC | Since only "sriov" is assumed at present, the setting value is fixed to "sriov." Memory size information per region of TCP received data storage "copyMemorySize": "1024", Default value "1024" Fixed memory (Byte) The container image name of copy branch processing module for CPUFunc. The number in the tag is the version number "imageURI": "localhost/cpu_copy_branch:1.1.0", Container image name of the container to use (no basic changes required) "template":{ Pod template data to create "apiVersion": "v1", "kind": "Pod", "spec":{ "containers":[{ Configuration Information for Containers Launched in Pod "name": "cfunc-copy-branch-1", There is only one container to start, so it can be fixed. "workingDir": "/opt/openkasugai-controller/sample-functions/functions-Container working directory Value is fixed to "/opt/openkasugai-controller/sample-functions/functions-ext/cpu_copy_branch" ext/cpu_copy_branch", "command": ["sh","-c"], Command to be executed in the container to be used The actual execution command is specified by "args."

"args":["./copy_branch", "%RECEIVING%", "%NUM%", "%FORWARDING%", "%MEMSIZE%"],	Arguments to be passed when executing the command	Copy branch processing module for CPUFunc execution command and its arguments
"securityContext":{		
"privileged": true		Value is fixed to "true"
}		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -TERM \$(pidof copy_branch)"]}}}	Pod stop command	Command line fixed at ""sh","-c", "kill -TERM \$(pidof copy_branch)""
}],		
"hostNetwork": false,	Configuring the Container Network to Use the Docker Host-Side Network Stack	At present, the value can be "false" because the use of 2nd NIC is assumed.
"hostIPC": true,		Value is fixed to "true"
"restartPolicy": "Always"		Value is "Always" fixed
}		·
}		
31		

CPUFunction configuration information for the glue (DMA to TCP conversion) processing module

cpufunc-config-glue-fdma-to-tcp.json	Description	Remarks (No basic change is required for any value)
. <u> </u>	Setting information for DMA communication on the input side and	Cines it is a processing module for converting DMA to TCD, those is only acting information for this area
ιτ <u>.</u>	TCP communication on the output side	Since it is a processing module for converting DMA to TCP, there is only setting information for this case.
"rxProtocol":"DMA",	Protocol on the input side	"DMA" fixed
"txProtocol":"TCP",	protocol on the output side	"TCP" fixed
"sharedMemoryMiB": 256,	Allocated size in HugePage used for PCIe connection [MegaByte]	The reserved size must be a power of 2. (Basic "256" is fine)
"imageURI": "localhost/cpu_glue_dma_tcp:1.1.0",	Container image name of the container to use	The container image name of the glue (DMA to TCP conversion) processing module for CPUFunc. The number in the tag is the version number (no basic changes required).
"additionalNetwork": true,	Whether the function uses the 2nd NIC	Currently, the value is fixed to "true" because 2nd NIC is assumed to be used.
"virtualNetworkDeviceDriverType": "sriov",	Driver for the virtual NW device used by the function on the 2nd NIC	Since only "sriov" is assumed at present, the setting value is fixed to "sriov."
"template":{	Pod template data to create	
"apiVersion": "v1",		
"kind": "Pod",		
"spec":{		
"containers":[{	Configuration Information for Containers Launched in Pod	
"name": "cfunc-glue-fdma-to-tcp-1",		There is only one container to start, so it can be fixed.
"workingDir": "/opt/openkasugai-controller/sample-functions/functions- ext/cpu glue dma tcp",	Container working directory	Value is fixed to "/opt/openkasugai-controller/sample-functions/functions-ext/cpu_glue_dma_tcp"
"command": ["sh","-c"],	Command to be executed in the container to be used	The actual execution command is specified by "args."
"args":["./build/glue", "%FORWARDING%", "%WIDTH%", "%HEIGHT%"], "securityContext":{	Arguments to be passed when executing the command	Command for executing the glue (DMA to TCP conversion) processing module for CPUFunc and its arguments
"privileged": true		Value is fixed to "true"
},		
"lifecycle":{	Define settings (handlers) for lifecycle hooks	
"preStop":{	The hook just before the container exits. Define what to do just	
"exec":{	Handler that executes the command when preStop	
"command": ["sh","-c", "kill -TERM \$(pidof ./build/glue)"]}}},	Pod stop command	Command line fixed at ""sh","-c", "kill -TERM \$(pidof ./build/glue)""
"volumeMounts":[{		
"name": "hugepage-1gi",	VolumeMount for the/dev/hugepages directory used by the ingress PCIe connection	Value is fixed as "hugepage-1gi"
"mountPath": "/dev/hugepages"		Value is fixed to "/dev/hugepages"
},{		
"name": "dpdk",	VolumeMount for the directory used by the DPDK used by the ingress PCIe connection	
"mountPath": "/var/run/dpdk"		Value is fixed as "var-run-dpdk"
}],		
"resources":{		
"requests":{		
"memory": "32Gi"		For shared memory (huge pages). This setting corresponds to the k8s specification "When using hugepage, you must request at least one CPU or memory." As the value can be arbitrary, it is good to fix "32Gi."

Page size of one hugepage	Value is fixed to "1Gi"
Volume for the/dev/hugepages directory used by the ingress PCIe connection	Same value as above volumeMounts. "hugepage-1gi"
	Same value as "mountPath" in volumeMounts. "hugepage-1gi" above

Volume for the directory used by the DPDK used by the ingress PCIe connection	Same value as volumeMounts. "dpdk" above
	Same value as "mountPath" in volumeMounts. "dpdk" above
	At present, the value can be "false" because the use of 2nd NIC is assumed.
	Value is fixed to "true"
	Value is "Always" fixed
	connection

For DeviceInfo controllers (bold red text indicates changes to the environment)

crc_deviceinfo_daemonset.yaml	Description	Remarks
apiVersion: apps/v1	·	
kind: DaemonSet		
metadata:		
name: crc-deviceinfo-daemon		
spec:		
selector:		
matchLabels:		
app: crc-deviceinfo-daemon		
template:		
metadata:		
labels:		
app: crc-deviceinfo-daemon		
spec:		
containers:		
- name: deviceinfo-container0		
image: localhost/deviceinfo:1.1.0		
imagePullPolicy: IfNotPresent		
securityContext:		
privileged: true		
args:		
- "kubeconfig=/kube/config"		
env:		
- name: K8S_CLUSTERNAME	Environment variable for the k8s cluster name in the environment	Fixed value
value: default		Change to match your environment's cluster name
- name: K8S_NODENAME		
valueFrom:		
fieldRef:		
fieldPath: spec.nodeName		
volumeMounts:		
- mountPath: /kube/config		
name: crc-deviceinfo-daemon		
volumes:		
- name: crc-deviceinfo-daemon		
hostPath:		
path: /etc/k8s_node/config		
type: File		

For PCIeConnection controllers (bold red text indicates changes to the environment)

crc_pcieconnection_daemonset.yaml	Description	Remarks
apiVersion: apps/v1		
kind: DaemonSet		
metadata:		
name: crc-pcieconnection-daemon		
spec:		
selector:		
matchLabels:		
app: crc-pcieconnection-daemon		
template:		
metadata:		
labels:		
app: crc-pcieconnection-daemon		
spec:		
containers:		
- name: pcieconnection-container0		
image: localhost/pcieconnection:1.1.0		
imagePullPolicy: IfNotPresent		
securityContext:		
privileged: true		
args:		

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- "kubeconfig=/kube/config"		
env:		
- name: K8S_NODENAME		
valueFrom:		
fieldRef:		
fieldPath: spec.nodeName		
volumeMounts:		
- mountPath: /kube/config		
name: crc-pcieconnection-daemon		
- mountPath: /var/run/dpdk	Configure the directory used by the DPDK used for PCIe connections	Configure the directory used by the DPDK
name: var-run-dpdk		
- name: hugepage-1gi	Setting up a directory prepared as a hugepage	In the assumed environment, a PCIe connection to be used as a HugePage is used, so the page size for one sheet of shared memory is 1GiB. The numeric part is changed according to the page size of one sheet of shared memory set in the worker node.
mountPath: /dev/hugepages		Set the file path of the directory prepared as a hugepage
resources:		
limits:		
hugepages-1Gi: 16Gi		Size of the hugepage set by os. Basically, the value shown on the left is acceptable.
requests:		
hugepages-1Gi: 16Gi		Size of the hugepage set by os. Basically, the value shown on the left is acceptable.
memory: 1Gi		
volumes:		
- name: crc-pcieconnection-daemon		
hostPath:		
path: /etc/k8s_node/config		
type: File		
- name: var-run-dpdk	Configure the directory used by the DPDK used for PCIe connections	
hostPath:		
path: /var/run/dpdk		Configure the directory used by the DPDK
type: DirectoryOrCreate		
- name: hugepage-1gi	Setting up a directory prepared as a hugepage	In the assumed environment, a PCIe connection to be used as a HugePage is used, so the page size for one sheet of shared memory is 1GiB. The numeric part is changed according to the page size of one sheet of shared memory set in the worker node.
hostPath:		
path: /dev/hugepages		Set the file path of the directory prepared as a hugepage
type: DirectoryOrCreate		

For EthernetConnection controllers (no special changes for the environment)

crc_ethernetconnection_daemonset.yaml	Description	Remarks	
apiVersion: apps/v1	·		
kind: DaemonSet			
metadata:			
name: crc-ethernetconnection-daemon			
spec:			
selector:			
matchLabels:			
app: crc-ethernetconnection-daemon			
template:			
metadata:			
labels:			
app: crc-ethernetconnection-daemon			
spec:			
containers:			
- name: ethernetconnection-container0			
image: localhost/ethernetconnection:1.1.0			
imagePullPolicy: IfNotPresent			
securityContext:	·		
privileged: true			
args:			

- "kubeconfig=/kube/config"	I
env:	
- name: K8S_NODENAME	
valueFrom:	
fieldRef:	
fieldPath: spec.nodeName	
volumeMounts:	
- mountPath: /kube/config	
name: crc-ethernetconnection-daemon	
volumes:	
- name: crc-ethernetconnection-daemon	
hostPath:	
path: /etc/k8s_node/config	
type: File	

For FPGAFunction controllers (no special changes for the environment)

crc_fpgafunction_daemonset.yaml	Description	Remarks	
apiVersion: apps/v1			
kind: DaemonSet			
metadata:			
name: crc-fpgafunction-daemon			
spec:			
selector:			
matchLabels:			
app: crc-fpgafunction-daemon			
template:			
metadata:			
labels:			
app: crc-fpgafunction-daemon			
spec:			
containers:			
- name: fpgafunction-container0			
image: localhost/fpgafunction:1.1.0			
imagePullPolicy: IfNotPresent			
securityContext:			
privileged: true			
args:			
- "kubeconfig=/kube/config"			
env:			
- name: K8S_NODENAME			
valueFrom:			
fieldRef:			
fieldPath: spec.nodeName			
volumeMounts:			
- mountPath: /kube/config			
name: crc-fpgafunction-daemon			
volumes:			
- name: crc-fpgafunction-daemon			
hostPath:			
path: /etc/k8s_node/config			
type: File			

For GPUFunction controllers (no special changes for the environment)

crc_gpufunction_daemonset.yaml	Description	Remarks	
apiVersion: apps/v1			
kind: DaemonSet			
metadata:			
name: crc-gpufunction-daemon			
spec:			
selector:			
matchLabels:			
app: crc-gpufunction-daemon			
template:			_

metadata:	
labels:	
app: crc-gpufunction-daemon	
spec:	
containers:	
- name: gpufunction-container0	
image: localhost/gpufunction:1.1.0	
imagePullPolicy: IfNotPresent	
securityContext:	
privileged: true	
args:	
- "kubeconfig=/kube/config"	
env:	
- name: K8S_NODENAME	
valueFrom:	
fieldRef:	
fieldPath: spec.nodeName	
volumeMounts:	
- mountPath: /kube/config	
name: crc-gpufunc-daemon	
volumes:	
- name: crc-gpufunc-daemon	
hostPath:	
path: /etc/k8s_node/config	
type: File	

For CPUFunction controllers (no special changes for the environment)

crc_cpufunction_daemonset.yaml	Description	Remarks
apiVersion: apps/v1		
kind: DaemonSet		
metadata:		
name: crc-cpufunction-daemon		
spec:		
selector:		
matchLabels:		
app: crc-cpufunction-daemon		
template:		
metadata:		
labels:		
app: crc-cpufunction-daemon		
spec:		
containers:		
- name: cpufunction-container0		
image: localhost/cpufunction:1.1.0		
imagePullPolicy: IfNotPresent		
securityContext:		
privileged: true		
args:		
- "kubeconfig=/kube/config"		
env:		
- name: K8S_NODENAME		
valueFrom:		
fieldRef:		
fieldPath: spec.nodeName		
volumeMounts:		
- mountPath: /kube/config		
name: crc-cpufunc-daemon		
volumes:		
- name: crc-cpufunc-daemon		
hostPath:		
path: /etc/k8s_node/config		
type: File		